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ABSTRACT

This directory offers a comprehensive listing of resources, including films, for energy education. The document is divided into three sections: (1) Publications according to elementary, secondary, and college level: (2) Audiovisuals; and (3) Periodicals. Specific energy topics covered include solar, wind, and biomass technologies. (RE)

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EXPANDED

Solar Energy Education Bibliography:

Books Films & Slides

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Center for Renewable Resources

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INTRODUCTION

The Solar Energy Education Bibliography has doubled in size, which bodes well for students (and teachers) of solar energy. The addition of a periodicals section contributed to the growth, as did a significant number of new titles. The large void of printed and audiovisual materials on renewable energy sources is closing, even though some issues remain neglected, and the high quality and sophistication of the new entries signals a welcome trend.

This time around, as it was the last, the Center for Renewable Resources' comprehensive annotated list of solar education materials is both needed and timely. It remains a reference guide to -- not an endorsement of -- hundreds of valuable educational sources on all forms of renewable energy: sunlight, wind, falling water, and biomass. A few general texts are included because they present fundamental concepts necessary to understanding all energy sources. Otherwise, only materials strictly devoted to basic solar sources are featured.

We selected only those materials that would adapt to use in the classroom, and in workshop and training sessions. Since demonstrating solar power at work is the best way to help students understand it, many do-it-yourself books and practical guides are included with projects that easily lend themselves to classroom use. Technical books are listed only if students, as well as professionals, can make good use of them.

Information sources that proved particularly beneficial in this update of the Solar Energy Education Bibliography were Environmental Action Reprint Services (EARS), the National Solar Heating and Cooling Information Center, and the Department of Energy's Energy Education Materials Inventory. We also consulted numerous book lists and newsletters from community groups, universities, and agencies to round out the spectrum.

As in the first edition, publications are grouped by grade level: "elementary" is kindergarten (k) to sixth grade; "secondary" is seventh to twelfth grade; and "college" includes two-year, four-year, vocational-technical and adult/evening institutions. The only other codes are "pbk" for paperback and "hbk" for hardback. The heading "general renewable" encompasses entries on more than one renewable energy source.

Keeping up with all the latest details (and inflation) is difficult, and we regret that we could not review all of the entries, particularly the audiovisual materials, first-hand. If you find gross inaccuracies, misinformation or lapses of editorial judgment, please notify us immediately. If you know something we don't and should, please pass it on.

Since this new edition required much more attention and a few more hands than anticipated, a round of kudos is due those who helped pull it all together: Laura Janis, Mike Taft, Katherine Walsh, Ann Ince, Lisa Rose and the inimitable Pat Lark.

We offer this bibliography as a starting point, a base from which to launch further solar exploration. Our belief is that a bright new world awaits us.

Beth Wagner
Education Coordinator
June 1980

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PUBLICATIONS

Elementary Level

GENERAL RENEWABLE ENERGY

AERO (Alternative Energy Resources Organization). Sun Fun Coloring Book. AERO, 435 Stapleton Bldg., Billings, MT 59101 1978 $.75 16 pp. gr. K-3

Coloring book on solar and renewable resources. Story with puzzles, cut-outs, and pictures to color.

Bendick, Jeanne. Putting the Sun to Work. Garrard Publishing Co., Champaign, IL 68120 1979 $4.74 gr. 4-6

Illustrated book explains ways that solar energy can replace fossil fuels. Presents the principles, practicality and potential of using the sun's energy.

Center for Renewable Resources. Solar Energy Education Packet for Elementary and Secondary Students. Sundries, c/o Solar Lobby, 1001 Connecticut Ave., NW, #510, Washington, DC 20036 1979(revised) 64pp. $4.25 + 15% postage & handling.

Features interdisciplinary reading lessons, quizzes, and projects on all renewable resources. Includes reference list for further reading.

Epoch B Project. Student Guide to Alternate Energy. Evanston Environmental Assn., 2024 McCormick Blvd., Evanston, IL 60201 1978 40pp. $2.50 gr. 4-12

An activity-oriented booklet introducing basic concepts of insulation/conservation, solar heating, and wind energy. Large and small projects--accompanied by teacher's notes and brief bibliography. A fresh approach and interesting suggestions. Clearly written text.

Energy Workshops. Renewable Energy Curriculum Activities. Conservation Consultants, 417 Thorne St., Sewickley, PA 15143 1979 $1.00 (ea.) gr. K-9

Separate single curriculum activities usually accompanied by transparency, activity master, or some other learning tool. Those specifically solar-related are: "It All Starts With the Sun" (gr. 4-9); "The Sun as the Prime Energy Source" (gr. K-3); "Wind Energy Through Poetry" (gr. K-3).

Houck, Oliver. The Best Present of All. National Wildlife Federation, 1412 16 St.NW, Washington, DC 20036 1974 23pp. 1-9 copies @ $.30 ea./10-more @ $.20 ea. gr. K-6 (& up)

Colorful, amusing, provocative tale of a king's search for the perfect present for future generations. Discusses all energy sources before choosing the energy heir: solar energy, of course. Reprint from Ranger Rick magazine.

National Center for Appropriate Technology. Appropriate Technology Curriculum. NCAT, P.O. Box 3838, Butte, MT 59701 1980 50+pp. $5.00 gr. 5-6

A collection of ten specially prepared lessons concerned with energy production and use, renewable resources, conservation and recycling, and food and nutrition. Includes simple project ideas, poster, handouts, and more.

National Science Teachers Association. Award-Winning Energy Education Activities for Elementary and High School Teachers. ERDA(DOE)/NSTA, Available from: DOE-TIC P.O. Box 62, Oak Ridge, TN 37830 1977 38pp. Free gr. K-12

Eleven prizewinning entries in the 1976 National Science Teachers Association Participation Contest. Special activities highlight various aspects of energy.

Elementary Level GENERAL cont'd.

National Science Teachers Association. The Energy We Use. DOE-TIC, P.O. Box 62, Oak Ridge, TN 37830 1977 41pp. Free gr. 1

Booklet on energy with several sections discussing sun, wind, and water power. Designed for classroom use with many simple activities.

New Western Energy Show. Get Your Hands On Energy: A Teaching Guide About Renewable Energy and Conservation. NWES, 226 Power Block, Helena, MT 59601 1979 104pp. $4.50 plus $.75 individual copies / 10-more, 40% discount with 10% postage & handling gr. 4-7

An excellent, original curriculum stemming from the troupe's visits to schools and classrooms. Encourages imagination and participation. A treasure of in-school and after-school projects on renewables.

New Western Energy Show. The Energy Show. NWES, 226 Power Block, Helena, MT 59601 1978 42pp. $3.30 (postpaid) gr. 4-10

Scriptbook of lively skits and songs about energy, particularly highlighting renewable energy and appropriate technology. Collected by members of the travelling show--performed in schools and communities with great success.

Washington State Office of Public Instruction. Energy, Food and You. Washington State Ofc. of Environmental Education, Shoreline District Office, NE 158th and 20th Ave., NE, Seattle, WA 98155 1979 367pp.(elem)/381(sec) $5/ea. gr. K-12

Two-volume elementary and secondary interdisciplinary curriculum guide to energy-related studies. Packed with projects including solar activities, recycling, land use planning and school gardens. Appropriate, organic methods are emphasized.

Wildsmith, Lee Brian. The North Wind and the Sun. Franklin Watts, New York, NY 1964 Preschool-2

A bright, exciting picture story showing the relationship of the sun and the wind.

SOLAR

Adzema, Robert and Mablen Jones. The Great Sundial Cutout Book. EARS, Box 545, LaVeta, CO 81055 1978 120pp. $9.95 gr. 4-12

Easy-to-assemble cutouts modernize the age-old method of telling time. The sundials offer discoveries of light and shadow and illustrate nature and technology working in unison.

Berger, Melvin. Energy from the Sun. Thomas Crowell Co., New York, NY 1976 33pp. $5.95 gr. K-5

Explains how the sun is the beginning of almost all of the energy on earth. Reveals the chain of solar relationships. Excellent for young children.

Brandt, Barbara. Solar Energy: Putting the Sun to Work. Solar Booksmith, 21 Burnside Ave., Somerville, MA 02144 1978 32pp. $3.50 postpaid (pbk) gr. 4-6

Good introduction to solar energy, concentrating on its direct heating uses. Large format, clear explanations. Lots of illustrations.

Elementary Level SOLAR cont'd.

Branley, Franklyn. Solar Energy. Thomas Crowell Co., New York, NY 1975 (revision of 1957) 117pp. $5.95 gr. 5-10

Explanation of solar energy, present and future uses. Drawings of solar devices and directions for simple experiments included.

Branley, Franklyn. The Sun: Our Nearest Star. Thomas Crowell Co., New York, NY 1961 36pp. $4.50 gr. K-6

Describes the sun's size, shape and characteristics and why it is necessary to our lives.

Branley, Franklyn. The Sun: Star Number One. Thomas Crowell Co., New York, NY 1964 gr. 6-12

Scientific approach regarding the sun as the center of the solar system.

Department of Energy. Science Activities in Energy Series: Solar Energy. DOE-TIC, P.O. Box 62, Oak Ridge, TN 37830 1977 23pp. Free gr. 4-6

Packet of twelve simple experiments designed to show students the properties of solar energy. Very attractive, encourages creativity. Very popular with students and teachers.

Fregosi, Claudia. Sun Grumble. MacMillan Publishing Co., Riverside, NJ 1974 Preschool-2

Beautifully illustrated storybook about the sun.

Gadler, Steve and Wendy Adamson. Sun Power: Facts About Solar Energy. Lerner Publications, Minneapolis, MN 1978 $6.95 gr. 6-12

Introduction to solar energy. Describes systems ranging from simple to complex, from currently available to experimental.

Goudey, Alice. The Day We Saw The Sun Come Up. Charles Scribner's Sons, Inc., New York, NY 28pp. $7.95 gr. K-4

Story and pictures describe the sun's relationship with the earth.

Halacy, Daniel S., Jr. Solar Science Projects. Scholastic Book Services, New York, NY 1974 96pp. $.95 all ages

Seven simple solar projects that really work. A classic, dating from 1959, easy to understand and appealing. A classroom staple on Sun Day 1978; extremely popular. Plans are for solar cooker, oven, water heater, distiller, furnace, and more.

Halacy, Daniel S., Jr. Experiments with Solar Energy. W. W. Norton & Co., New York, NY 1969 $4.50 gr. 6-up

Collection of 40 inexpensive solar experiments including list of materials, approximate costs, construction and operation of the devices involved.

Hoke, John. The First Book of Solar Energy. Franklin Watts, Inc., New York, NY 1968 $4.90 gr. 4-6

An introduction to the sun's energy and its various forms. Discusses the origins and uses of solar energy and the devices used to collect and convert it.

Elementary Level SOLAR cont'd.

Knight, David. Harnessing the Sun: The Story of Solar Energy. William Morrow & Co., New York, NY 1976 128pp. $5.95 gr. 5-9

Discusses past and present work in the field of solar energy and speculates about future applications. Contains many photographs.

Metos, Thomas and Gary Bitter. Exploring With Solar Energy. Julian Press/Simon and Schuster, New York, NY 10020 1978 64pp. $6.96 gr. 3-6

Explains the history of solar energy use and describes future uses. Offers a few solar experiments and model-building to help students demonstrate solar energy at work.

Regimers, Beatrice. Who Likes the Sun? Harcourt Brace, New York, NY 1961 gr. preschool-2

Factual story about the sun. Easy reading for second grader, and good read-aloud book for younger children.

Ruchlis, Hyman. Thank you, Mr. Sun. Harvey House Publishers, Irvington-on-Hudson, NY 1966 (revised from 1957) 45pp. $4.69 gr. 2-5

Picturebook with text explaining the sun's role in food, water, oxygen and heat production. Good background reading for young readers.

Shapp, C. & M. Let's Find Out About the Sun. Franklin Watts, Inc., New York, NY 1975 $4.90 gr. K-3

Text with colorful illustrations that explain the earth's rotation around the sun and the changing seasons.

Smith, Norman. Sun Power. Coward, McCann and Geohegan, Inc., New York, NY 1976 46pp. $4.95 gr. 4-6

Booklet describing the importance of the sun to all living things, offering a new understanding and appreciation of our chief energy source.

Solar-Ed Corporation. Handbook of Energy Lesson Plans. Solar-Ed Corp., 1627 Litchfield Turnpike, P.O. Drawer X, Woodbridge, CT 06525 1977 25pp. $3.00 each

Four separate notebooks with collection of solar experiments geared to four different specific levels: elementary, junior high, high school and college teachers. Science-oriented, designed for teacher, not student.

Spetgang, Tilly and Malcolm Wells. Tilly's Catch-A-Sunbeam Coloring Book: The Story of Solar Heat Even Grown-ups Can Understand. Solar Service Corp., 306 Cranford Rd., Cherry Hill, NJ 08003 1978 (3rd printing) 32pp. $1.50/ea. + $1 postage & handling; 10-49: $1/ea. + $1 postage; 50-more: $.80/ea. (further discounts available)

Humorous, appealing and highly educational coloring book on solar heating. Casually informs the reader/illustrator of basic sun facts and concepts.

Tresselt, Alvin. Sun Up. Lothrop, Lee and Shephard Co., Inc. 1979 24pp. $5.49 + $.75 handling gr. K-3

Storybook with pictures tells of the sun's relationship to the activities of people and animals on a farm.

Weart, Spencer. How to Build a Sun. Coward, McCann & Geohegan, East Rutherford, NJ 1971 gr. 5-12

Planetary approach to studying the sun.

Elementary Level cont'd.

WIND

Brown, Joseph and Anne. Harness the Wind. Dodd, Mead and Co., New York, NY 1977 $5.95 gr. 4-12

Begins with history of windmills: their design, operation, and performance throughout the world. Discusses renaissance of wind machines as power source.

DeLittle, R. J. The Windmill Yesterday and Today. John Baker, London, England 1972

History of windmills and how they work. Illustrated with many excellent black and white photos.

Dennis, Landt. Catch the Wind. Four Winds Press, New York, NY 1976 114pp. $7.95 gr. 5-up

Survey on windpower in the U.S. and abroad. Examines past, present and future uses. Excellent introduction for children and adults. Illustrations, photographs and a bibliography.

WATER

Michaelson, David R. Oceans in Tomorrow's World: How Can We Use and Protect Them? Messner, New York, NY 1972 189pp. $4.79 gr. 5-9

A summary of current and projected methods of using the oceans as an energy source. Contains a section, "Power from the Sea," covering tidal and steam conversion.

Zim, Herbert. Waves. Morrow & Co., New York, NY 1967 64pp. $2.94 gr. 3-5

Excellent background book for understanding the potential power of the waves and the ocean. Clear, dramatic black-and-white drawings.

BIOMASS -- nothing available to date for elementary level.

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Elementary Level cont'd.

Unannotated Bibliography for Elementary Level

Solar

Asimov, Isaac. The Sun. Follett Publishing Co., Chicago, IL 1972 gr. 2-5

Asimov, Isaac. What Makes the Sun Shine? Little, Brown & Co., Waltham, MA 1971 gr. 1-3

Carlson, B. W. and R. Wigg. We Want Sunshine In Our Houses. Abingdon Press, Nashville, TN 1973 gr. 1-3

Halacy, Daniel, Jr., Fabulous Fireball. MacMillan, New York, NY 1957 (1970) gr. 7 and up

Kinney, Jean. What Does the Sun Do? 1967 $5.50 preschool-3

Schick, Eleanor. City Sun. MacMillan Publishing Co., Riverside, NJ gr. 1-3

Wrigley, D. The Sun That Shone Too Much. Wheaton & Co., New York, NY 1965

Yanow, Gil. Sunshine in the Classroom and Solar Experiments in the Classroom. AS-ISES, 205B McDowell Hall, Univ. of Delaware, Newark, DE 19711 1978 200pp. $6.00 ea. gr. 1-6

Zim, Herbert. The Sun. William Morrow & Co., West Caldwell, NJ 1975 gr. 4-

Wind

Brewer, M. Wind is Air. Child's World, Chicago, IL 1976 Preschool-3

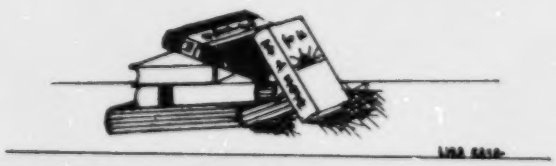
Conger, M. Who Has Seen the Wind? Abingdon Press, Nashville, TN 1959

Grohskopf, B. Children in the Wind. Atheneum Publishers, Paterson, NJ 1977 gr. 6-8

Hatch, S. Wind is to Feel. Coward, McCann & Geohegan, East Rutherford, NJ 1973 Preschool-3

Hutchins, P. Wind Blew. MacMillan, Riverside, NJ 1974 Preschool-2

Smith, H. E., Jr. Play With the Wind. McGraw-Hill, New York, NY 1972 Preschool-2



Secondary Level

GENERAL RENEWABLE ENERGY

Alves, Ronald. Living With Energy: Alternative Sources in Your Home. Penguin Books, New York, NY 1978 $7.95 gr. 10-up

Readings about renewable energy sources that are practical and environmentaliy sound. Full of photos and illustrations with a glossary, resources list, and select bibliography.

Bender, Tom. Sharing Smaller Pies. Rain Publications, 2270-B N.W. Irving, Portland, OR 97210 1975 38pp. $2.00 gr. 10-up

Economic, philosophic, and social/scientific discussion of renewable energy, resource conservation and appropriate technology. Presents list of changes that will lead to a sustainable future.

Branley, Franklyn. Energy for the 21st Century. Thomas Crowell Co., New York, NY 1975 85pp. $6.50 gr. 8-12

Explains how energy is stored, ways of obtaining energy from photosynthesis, fuels from waste and the potential of solar.

Center for Renewable Resources. Solar Energy Education Packet. (See Elementary.)

Clark, Wilson. Energy for Survival: The Alternative to Extinction. Anchor Press/ Doubleday & Co., New York, NY 1975 652pp. $4.95 gr. 10-up

One of the best overall analyses of the social, environmental, political and economic aspects of energy. Explains conventional and renewable energy use from the Stone Age to present at a non-technical level. Includes an extensive reference guide to other sources.

Clegg, Peter. New Low-Cost Sources of Energy for the Home. Garden Way, Charlotte, VT 1975 252pp. $7.95 gr. 10-up

Thorough overview of current domestic renewable energy technology, presenting basic principles of solar, wind, water and wood systems. Also how to plan, design and install these systems.

Commoner, Barry. The Poverty of Power. Bantam Books, New York, NY 1976 314pp. $2.95

Excellent in-depth analysis of energy problems, the economic crisis, and environmental/social implications. Examines our use and misuse of fossil fuels, the economically disastrous nuclear program (capital vs. labor), solar development as an abundant and economic power, and the need to rethink our lifestyles and uses of power. Required reading.

Cummings, Richard. Make Your Own Alternative Energy. David McKay Co., New York, NY 1979 $8.95 gr. 7-12

Guide complete with instructions and diagrams for constructing either projects or models of solar collector, solar greenhouse, waterwheel rock tumbler, wind gauge, sawdust stove and a tabletop methane digester. Future role of renewable energy is discussed.

Secondary Level GENERAL cont'd.

Davis, Albert and Robert Schubert. Alternative Natural Energy Sources in Building Design. Van Nostrand Reinhold Co., New York, NY 1977 252pp. $6.95 (pbk) gr. 10-up

Updated edition of basic design criteria in using renewable energy sources. Covers architecture, building design and energy systems, energy conservation, site orientation, wind, water and solar power systems and integrated systems. Intended for students and teachers, professional and amateur.

Epoch B. Student Guide to Alternate Energy. (See Elementary.)

Ericson, Katherine. The Solar Jobs Book. Brick House Publishing Co., Andover, MA 1980 approx. 220pp. $9.95 (pbk) gr. 10-up

Uniquely addresses the emerging solar job market. Proposes how to get started, where to get a solar education, how to find organizations specializing in solar and how traditional professional careers can incorporate solar into their work.

Friend, Gil and David Morris. Kilowatt Counter. Alternative Sources of Energy, Milaca, MN 1975 36pp. $2.25 gr. 9-12

Excellent reference material that defines energy and its uses, measurement, conservation, etc. Especially suited for secondary teachers and the classroom. Examines potentials and economics of renewable energy sources.

Halacy, Daniel, Jr., Earth, Water, Wind and Sun. Harper & Row, New York, NY 1977 186pp. $8.95 gr. 10-up

Historical development and use of nature's four basic elements as viable energy sources. Includes data on costs, feasibility, and environmental impacts of wind, hydroelectric, geothermal and solar power.

Hayes, Denis. Energy: The Case for Conservation. Worldwatch Institute, Washington, DC 1976 77pp. 1-9 copies @ $2; 10-49 @ $1.50; 50 or more @ $1 gr. 10-up

Presents surprising facts and convincing arguments to save energy through conservation. Points out ways to cut back our energy consumption and increase our efficiency without significant changes in lifestyle.

Hayes, Denis. Rays of Hope: The Transition to a Post-Petroleum World. W. W. Norton & Co., New York, NY 1977 240pp. $3.95 (pbk) gr. 11-up

Examines applications of solar and other renewable resources in a global transition to a post-petroleum world. The technological economic and social problems of conventional sources versus solar are presented, with solar emerging as the winner.

Leckie, Jim; Gil Masters; Harry Whitehouse; and Lily Young. Other Homes and Garbage. Sierra Club Books/Scribners, New York, NY 1975, 1977 320pp. $9.95 gr. 10-up

An outstanding guide to the study, design and construction (or renovation) of alternative housing that is ecologically/energy efficient. Very practical and technical with beautiful graphics, charts and tables.

ovins, Amory. Soft Energy Paths: Toward a Durable Peace. Ballinger/Friends of the Earth, Cambridge, MA 1977 231pp. $6.95 gr. 10-up

Presents the consequences of choosing between a path of soft technologies (renewable resources) and hard technologies (fossil and nuclear fuels) for our energy future. Compares capital costs of available technologies and studies the related socio-politics, values and nuclear proliferation.

Secondary Level GENERAL cont'd.

Maine Audubon Society. Vocational and Industrial Arts Packets. Environmental and Energy Education Project, Maine Audubon Society, Falmouth, ME 1977 130pp. $6.00 gr. 10-up

A very thorough manual with sections on solar concentrators and collectors, wood as fuel, heat loss, bio-gas, wind and water. Information for teacher and activities for students. Other curriculum packets include radiant energy, photocells, heat storage, ocean thermal, energy vocabulary and conservation.

McPhillips, Martin and Solar Age Magazine, ed. The Solar Age Resource Book. Everest House Publishers, New York, NY 1979 242pp. $9.95 gr. 10-up

Effectively combines feature articles on all aspects of renewable energy and buyers' guides to wood stoves, wind systems, and solar packages and components. Informative and easy to understand.

Merrill, Richard, and Tom Gage. Energy Primer. Portola Institute, 558 Santa Cruz Ave., Menlo Park, CA 94025 1978 (revised, updated) 256pp. $7.95 postpaid gr. 9-up

Comprehensive book about renewable energy resources: solar, wind, water and biofuels. Provides information on the reliability of small-scale energy systems, and includes many references. A veritable cornucopia of ideas and resources from 88 experienced contributors.

Minnesota IMC. Energy Activities for Industrial Education. Minnesota Instructional Materials Center, 3554 White Bear Ave., White Bear Lake, MN 55110 1977 42pp. $5.00 gr. 7-12

Specifically aimed for industrial arts programs, 21 "hands-on" activities/experiments include constructing hydroelectric and wind generators, insulation efficiency tests, solar collection and storage, and automotive efficiency.

Montana State Energy Office, Montana Renewable Energy Handbook. State Capitol, Helena, MT 59601 March 1977 38pp. gr. 10-up

Basic guide to renewable resource information with general interest/introductory materials. An annotated reference section included. Geared to Montana.

Mounts, Richard. The Role of Local Government in a National Energy Strategy. National League of Cities, Publications Dept., 1620 I St., NW, Washington, DC 20006 1977 25pp. $3.00 gr. 11-up

Uses several conservation and solar technology experiments conducted at the local level to illustrate the need for new federal policy that would support these endeavors.

National Science Teachers Association. Award-Winning Energy Education Activities for Elementary and High School Teachers. (See Elementary.)

National Science Teachers Association. Fact Sheets on Alternative Energy Resources. DOE Technical Information Center, P.O. Box 62, Oak Ridge, TN 37830 1977 4-8pp. Free gr. 10-12

A series of nineteen information sheets; those pertaining to renewable energy resources are #1,7,9,10,11,16-19. They provide basic facts on each subject.

New Western Energy Show. Get Your Hands on Energy. (See Elementary.)

New Western Energy Show. The Energy Show. (See Elementary.)

Secondary Level GENERAL cont'd.

Prenis, John, ed. Energy Book #1: Natural Sources and Backyard Applications. Running Press, Philadelphia, PA 1975 112pp. $4.00

Overview of possible alternative sources of energy, both practical and experimental. How-to guide for solar stills, heating systems and swimming pool heaters.

Prenis, John, ed. Energy Book #2: More Natural Sources and Backyard Applications. Running Press, Philadelphia, PA 1977 125pp. $5.00

Additional and latest developments and future possibilities for energy from renewable sources (sun, wind, methane, plants, and trash). Some applications a little more technical than in Book #1.

Shuttleworth, John. Mother Earth News Handbook of Homemade Power. Bantam Books, Inc., New York, NY 1974 374pp. $2.25 gr. 7 and up

Handbook of renewable energy information with innovative energy solutions. Instructions on how to build and use solar cookers, ovens and water heaters.

Slavet, Julie. NLC Energy Policy Reader. National League of Cities, Publications Dept., 1620 I St., NW, Washington, DC 20006 1977 130pp. gr. 11-up

Collection of articles and fact sheets supporting the League's adopted energy policy stressing the need for a transition from non-renewable to renewable energy sources. One of the rare publications addressing urban energy matters.

Solar Lobby, et al. Blueprint for a Solar America. Sundries, c/o Solar Lobby, Washington, DC 1979 40pp. $2.50 + 15% postage & handling gr. 10-up

Builds a rationale for and presents a series of programs needed to achieve more than 25 percent of U.S. energy from renewable resources by the year 2000.

Stoner, Carol Hupping, ed. Producing Your Own Power. Rodale Press, Emmaus, PA 1974 Vintage Books/Random NY 1975 322pp. $8.95 (hbk)/$3.95 (pbk)

Examines small-scale power structures. Explanation of how to harness energy from renewable resources, with useful suggestions for classroom and individual projects. Includes sources, conversion tables and a good bibliography.

Terry, Mark and Paul Witt. Energy and Order: A Lesson Plan. Friends of the Earth, San Francisco, CA 1976 42pp. $3.00 gr. 10-12

Teacher's handbook contains revolutionary approach to teaching high school students about energy use. Deals with values and decision-making, including brief, good bibliography. Outlines series of presentations and interesting activities.

University of Colorado. Energy and Energy Conservation Activities for High School Students. Univ. of Colorado, School of Engineering, Boulder, CO 80309 1978 230pp. gr. 9-12

A manual of 15 energy and conservation science activities designed for the advanced student. Leans toward renewable energy topics; provides much background data.

Wallace, Daniel, ed. Energy We Can Live With. Rodale Press, Emmaus, PA 1976 150pp. $3.95 (pbk)

Analysis of renewable resources including solar, wind, methane, gasohol, and pedal power. A proposal to work with nature rather than against it.

Washington State Office of Public Instruction. Energy, Food and You. (See Elementary.)

Secondary Level cont'd.

Wells, Malcolm. Energy Essays. Edmund Scientific, Inc., Barrington, NJ 1976 70pp. $5.95(pbk) gr. 7-12 Also available from the author: Box 1149, Brewster, MA 02631 $6.00 + $1.00 postage; 10-more @ $3.60 (postpaid)

Collection of essays by a few guest authors, but most are by the Energy Inquisitor, M. Wells. A wealth of commonsense and original thinking. A delightful but serious commentary with a distinct solar slant and lots of illustrations.

SOLAR

Adams, Florence. Catch A Sunbeam: A Book of Solar Study and Experiments. Harcourt, Brace, Jovanovich, Inc., New York, NY 1978 77pp. $7.95 gr. 7-12

Scientifically inspired solar experiments. The first part is devoted to understanding the solar system and the sun's changing positions in the sky. Projects include solar heating panel, furnace still and parabolic stove.

Adzema, Robert and Mablen Jones. The Great Sundial Cutout Book. (See Elementary.)

American Association of Physics Teachers. Solar Energy: Selected Reprints. SUNY, at Stony Brook, NY $7.00 gr. 12

Collected reprints of solar energy articles, valuable for independent study, research or teacher background material.

Augustyn, Jim. The Solar Cat Book. Ten Speed Press, Berkeley, CA 1979 96pp. $3.95 (pbk) gr. 9-up

Finally, feline association with and study of the sun have been acknowledged, proving beyond doubt that cats have an overwhelming advantage over people when it comes to solar knowledge. Humorous, clever and relatively instructive.

Baer, Steve. Sunspots - Collected Facts and Solar Fiction. Zomeworks, P.O. Box 712, Albuquerque, NM 87103 1977 115pp. $4.00 (pbk) gr. 10-up

Intriguing, humorous approach to conventional and unconventional solar energy applications. Refreshing introduction to solar with simple experiments and devices that provide starting points for many science projects. Material drawn from experience in building and residing in solar-heated zomes.

Barling, John. Solar Fun Book: 18 Projects for the Weekend Builder. Brick House Publishing, Andover, MA 1979 120pp. $7.95 (pbk) gr. 10-up

Originally assembled for a high school class, step-by-step instructions lend themselves to students, adults and community groups. Projects range from easy to ambitious, including cookers, swimming pool heater, a bread-box collector, a model solar greenhouse, and more.

Branley, Franklyn. Solar Energy. (See Elementary.)

Branley, Franklyn. The Sun: Star Number One. (See Elementary.)

Brinkworth, Brian. Solar Energy for Man. Wiley and Sons, New York, NY 1972 250pp. $8.95 gr. 8-up

Comprehensive study about solar collection and conversion into heat, work and electricity. Need strong science interest to read it because it is quite technical. Includes many illustrations.

Secondary Level SOLAR cont'd.

Buckley, Shawn. Sun Up to Sun Down. McGraw-Hill, New York, NY 1979 166pp. $6.95 (pbk) gr. 9-up

Solar heating principles are explained by using fluid analogies. Simple yet explicit drawings carefully illustrate the points being made. Traditionally technical topics are brought within the grasp of the non-technocrat.

Campbell, Stu and Doug Taff. Build Your Own Solar Water Heater. Garden Way Publishing, Charlotte, VT 1978 109pp. $7.95 (pbk) gr. 10-up

Presents fundamentals of building and installing a solar water heater. Non-technical writing style makes it suitable for class projects.

Daniels, Farrington. Direct Use of the Sun's Energy. Ballantine Books, New York, NY 1964 271pp. $1.95 (pbk) gr. 7 and up

Excellent basic book in non-technical form on solar utilization. Covers all aspects of solar energy research and application. Dated but useful information and excellent history source.

Davis, W. Douglas. Solar Energy Laboratory Manual. Crystal Productions, 107 Pacific Ave., Aspen, CO 81611 1979 Teacher's Guide 45pp. $5.95; Lab Manual 95pp. $5.95

Seventeen laboratory and outdoor science experiments teach the fundamentals of solar energy uses, collection and storage. Solar radiation, heat transfer, passive and active (flat plate) solar systems are presented. Teacher's guide included.

Department of Energy. Solar Energy Project. DOE, available from: Solar Energy Project, 1424 K St., NW, 3rd Floor, Washington, DC 20005 1979 Field Test Copies Free gr. 7-12 (also available for purchase from GPO; send for price list.)

Solar lessons and activities, background text, teacher and student handbooks designed to blend with existing science course work.

EARS, Solar Directory. Environmental Action Reprint Service, Denver, CO 1975 $20.00 + $1.50 postage gr. 12-up

Historical perspectives and background information on solar research and development. Covers the period 1974-75.

Ecotope Group. A Solar Water Heater Workshop Manual. Ecotope Group, 2332 E. Madison, Seattle, WA 98112 1978 80pp. $5.00 gr. 10-up

Step-by-step instructions lead to the construction of a thermo-siphon solar water heater. Complete list of tools and materials, and guidelines to ensure the workshop is a learning experience.

Environmental Information Center. Build Your Own Solar Water Heater. EIC of the Florida Conservation Foundation, 935 Orange Ave., Winter Park, FL 32789 1976 26pp. $2.50 gr. 7 and up

Contains complete and detailed directions for constructing a solar hot water system. Requires no special skills and uses readily available materials.

Foster, William A. Build-It Book of Solar Heating Projects. Tab Books, P.O. Box 40, Blue Ridge Summit, PA 17214 1977 195pp. $4.95 gr. 10-up

Guide to planning, designing, building and installing a solar heating system. Although geared to large-scale solar systems, information is basic to any installation.

Secondary Level SOLAR cont'd.

Gadler, Steve and Wendy Adamson. Sun Power: Facts About Solar Energy. (See Elementary.)

Gorham, Jonathan. Solar Concepts. Maine Audubon Society, 118 Route One, Falmouth, ME 04105 1979 129pp. and 135pp. $6.50 ea./$13.00 set

This two-volume set of a Background Text and Teacher's Notes serves a companion curriculum guide. Fully and understandably explains the principles and terminology of solar energy. Includes teaching ideas, tests, curriculum objectives, and instructions for hands-on projects.

Halacy, Beth and Dan. The Solar Cookery Book. Peace Press, Culver City, CA 1978 108pp. $6.95 gr. 10-12

Educational value is implicit in the building of inexpensive solar oven and reflector cooker (for which plans are included) and in following these "kitchen-tested" solar-cooking recipes.

Halacy, Daniel S., Jr. Experiments With Solar Energy. (See Elementary.)

Halacy, Daniel S., Jr. The Coming Age of Solar Energy. Avon, New York, NY 1973 248pp. $2.25 (pbk)/$9.95 (hbk) gr. 7 and up

A popularly written historical survey of solar energy. Outlines theories, past uses and future applications of the sun's energy.

Halacy, Daniel S., Jr. Solar Science Projects. (See Elementary.)

Hand, Jackson. Home Guide to Solar Heating and Cooling. Times Mirror Magazines, Book Div., New York, NY 1978 $3.95 gr. 10-up

Explains practical principles of solar energy usage, emphasizing how to design and construct one's own system.

Hayes, Denis. Energy: The Solar Prospect. Worldwatch Institute, Washington, DC 1977 80pp. 1-9 copies @ $2.00; 10-49 copies @ $1.50; 50-more @ $1.00

Worldwatch Paper #11 presents a global perspective of the present and future applications of solar energy. Excellent discussion of all renewable energy forms. Well documented.

Hoke, John. The Impact of Solar Energy. Franklin Watts, New York, NY 1978 90pp. $5.45 gr. 7-12

Delves into the nature and uses of solar energy. Includes experiments for the individual to perform at home or in the classroom. Source list and costs of project supplies and/or kits given where possible.

Joint Venture and Friends. Here Comes the Sun, 1981: Solar-Heated Multi-Family Housing. Joint Venture, Inc., Boulder, CO 1975 100pp. $12.00 gr. 9-up

Solar mechanical systems described in a step-by-step process. Energy conservation measures emphasized by using multi-family housing concepts.

Keaton, Laurie and Everett Edington. Understanding Solar Energy Systems. Wisconsin Vocational Studies Center, 1025 W. Johnson St., Univ. of Wisconsin, Madison, WI 53706 1978 151pp. $7.00 gr. 11-12

Designed for industrial arts, vocational and adult education students, with specific focus on residential solar applications. Introduces solar through a teacher's guide, student readings, assignments and worksheets, and more.

Secondary Level SOLAR cont'd.

Keyes, John. Harnessing the Sun to Heat Your House. Morgan & Morgan, Inc., Dobbs Ferry, NY 1975 202pp. $3.95 gr. 11-up

Description of practical methods for using the sun as a home heating source. Suitable for projects, research and/or teacher background materials.

Knight, David. Harnessing the Sun: The Story of Solar Energy. (See Elementary.)

McCracken, H. W. Passive Solar Water Heater. Centerline Co., 401 S. 36th St., Phoenix, AZ 85034 $6.00 gr. 10-up

Offers plans, photographs, instructions and data that enable students to build and install a passive solar water heater.

Messel, H. and S. T. Butler. Solar Energy. Pergamon Press, Elmsford, NY 1975 $8.25 gr. 10-up

Delves into many aspects of solar energy, including world energy resources and consumption, energy conversion, nature of solar energy, and solar devices.

Meyers, A. C., III, and C. Summers. Solar Energy. American Section of ISES, Inc., 205B McDowell Hall, Univ. of Delaware, Newark, DE 19711 1978 400pp. $15.00 gr. 10-12

Introduces solar energy conversion and uses. Presentation is at an equivalent level to Scientific American.

Michaels, Harvey. How to Understand Solar Technology and Economics. Solar Data, 13 Evergreen Rd., Hampton, NH 03842 1976 $7.50 (quantity discount available) gr. 7 and up

Introduces solar energy in non-technical language. Offers a method to calculate cost of solar relative to oil, gas, or electric power.

Morris, David. Dawning of Solar Cells. Institute for Local Self-Reliance, Washington, DC 1976 16pp. $2.00 gr. 9-up (also available from EARS: 1-9 copies @ $1.50; 10-49 @ $1.25; 50 or more @ $1.00.)

Guide to the potential for generating electricity from solar energy. Basic introduction to the technology and economics of solar cells. Thorough and encouraging information about photovoltaics with economic predictions.

Norton, Thomas, et al. Solar Energy Experiments for High School and College Students. Rodale Press, Emmaus, PA 1977 129pp. $5.95 gr. 9-up

Collection of 19 experiments and eight classroom activities designed to familiarize students with solar energy measurement, collection and use. Experiments are self-contained with own introduction and background information. Extensive reference section included.

Rankins, William and David Wilson. Practical Sun Power. Lorien House, P.O. Box 1112, Black Mountain, NC 28711 1974 52pp. $4.00 gr. 7 and up

Instructions for five simple solar energy projects, including a spherical reflector, solar oven and window air heater. Includes five mini-projects.

Rankins, William III and David Wilson. The Solar Energy Notebook. Lorien House, P.O. Box 1112, Black Mountain, NC 28711 1976 56pp. $4.00 gr. 7-12

Basic solar energy texts, like calculation of sun's angles, mixed with solar facts and figures. Appealing graphics and imaginative approach.

Sands, Jonathon. Solar Heating Systems. Solar Systems, Danbury, NH 1975 46pp. $3.00 gr. 7-12

Brief, general guide to solar systems presented in a non-technical manner. Includes basic solar facts for students, plus glossary, information sources, solar history and background.

Solar Age, ed. Solar Age Catalog. Solar Age, Harrisville, NH 1977 236pp. $8.50 gr. 10-up

Excellent catalog with products listed by category, including passive solar greenhouses, insulation, glazing, collectors, solar cells and much more. Well-written introductions precede each category. Includes resource, service and information directory.

Solar-Ed Corporation. Handbook of Energy Lesson Plans. (See Elementary.)

Stewart, John. How to Make Your Own Solar Electricity. TAB Books, Blue Ridge Summit, PA 1979 168pp. $5.95 gr. 11-up

Covers system design, construction, and economics of photovoltaics. Provides details on solar arrays, battery and other storage systems, concentration cells, photosensors, and more.

Sussman, Art and Richard Frazier. Handmade Hot Water Systems. Garcia River Press, P.O. Box 527, Point Arena, CA 95468 1978 $4.95 gr. 10-up

Simply explains solar and wood powered hot water systems that can be built with common materials and tools. Suitable for student projects.

Volunteers in Technical Assistance. Solar Cooker Construction Manual. TEA Bookshop, Harrisville, NH 25pp. $2.25 (pbk) gr. 9-up

Detailed, illustrated, easy-to-follow instructions to build a low-cost wooden solar cooker.

Volunteers in Technical Assistance. Solar Grain Dryer. TEA Bookshop, Harrisville, NH 32pp. $3.25 (pbk) gr. 9-up

Illustrated instructions to build a low-cost solar dryer out of easily obtainable materials.

Weart, Spencer. How To Build A Sun. (See Elementary.)

Williams, J. Richard. Solar Energy: Technology and Applications. Ann Arbor Science Publishers, Ann Arbor, MI 1977 174pp. $9.95(hbk)/$6.95(pbk) gr. 10-up

An overview of the techniques, equipment-practicality and comparative costs of solar energy for a myriad of applications. Includes glossary and lengthy bibliography.

Wohlrabe, Raymond. Exploring Solar Energy. The World Publishing Co., New York, NY 1966 87pp. $2.96 gr. 5-9

Starts with history of ancient sun worshippers and progresses to present and future uses of solar energy. Follows "current" solar projects around the world, from India to California. Well illustrated.

Yanda, Bill and Susan. An Attached Solar Greenhouse. The Lightning Tree, P.O. Box 1837, Santa Fe, NM 87501 1976 20pp. $2 (quantity discount avail.) gr. 7 and up

Well illustrated step-by-step manual for an attached passive solar greenhouse. Takes into account solar angle, insulation, foundation, design, construction and operation. Written in English and Spanish. A feasible school project requiring a minimal investment.

WIND

Beedell, Suzanne. Windmills. Chas. Scribner's Sons, New York, NY 1975 143pp. $12

Interesting text and outstanding photographs describe the history, structure and modern use of various types of European and American windmills.

Brown, Joseph and Anne. Harness the Wind. (See Elementary.)

Burke, Barbara and R. N. Meroney. Energy from the Wind: Annotated Bibliography. Engineering Research Center, Colorado State University, Fort Collins, CO 1975, 1977 revised. $15.00 gr. 11-12

Contains annotated references to books, articles, conferences and technical reports on wind-generated electricity. Sources include home-built projects, advanced technical studies and reports on large-scale production.

Coonley, Douglas. An Introduction to the Use of Wind. Total Environmental Action, Harrisville, NH 1974 22pp. $2.00

A brief outline of the key characteristics of wind energy. Covers general considerations in generating electricity from the wind.

Coonley, Douglas. Wind: Making It Work for You. Total Environmental Action, Church Hill, Harrisville, NH 99pp. $7.00(pbk) gr. 11-up

Non-technical discussion of wind energy, types of systems, siting, storage, and use for heating and cooling buildings. Proposes a set of easy-to-build wind projects.

Dennis, Landt. Catch the Wind. (See Elementary.)

Eldridge, Frank. Wind Machines. National Science Foundation, Washington, DC 1976 78pp. $3.00 gr. 10-college

Best available overview on wind machines with hundreds of photos, illustrations, and diagrams. Describes history, potential, applications, performance and system design of wind machines.

Hackleman, Michael. The Homebuilt, Wind-Generated Electricity Handbook. Earthmind/ Peace Press, Culver City, CA 1975 194pp. $7.95 gr. 8-12

Practical information on the restoration of discarded wind generators, and designing and installing of towers, wind machines, and generating equipment. Entertaining and well illustrated, written for the lay-person. "Information bonanza for wind power enthusiasts."--EARS

Hackleman, Michael and David House. Wind and Windspinners. Peace Press, Culver City, CA 1974 (Earthmind, Mariposa, CA 1975 update newsletter) 140pp. $7.95 gr. 8-up

A manual presenting basics of wind-to-electricity energy conversion. Virtually every aspect of wind power (theory, planning, construction, operation) discussed in understandable, technically competent manner. Sources and references included.

Secondary Level WIND cont'd.

Park, Jack. Simplified Wind Power Systems for Experimentation. Helion, P.O. Box 445, Brownsville, CA 95919 1975 80pp. $6.00 (pbk) gr. 10-up

Very complete guide to design and construction of wind machines. Delineates the planning and designing of a small wind-powered electrical generator. Presented in step-by-step fashion, well illustrated and easy to read, though somewhat technical. Excellent basic book.

Preston, Hayter. Windmills. Gale Research Co., Detroit, MI 1975 $14.00 gr. 9-up

The history of wind power, including descriptions and illustrations of old European windmills which teamed aesthetics with usefulness.

Putnam, Palmer. Power from the Wind. Van Nostrand Reinhold, New York, NY 1948 224pp. $11.95 (hbk) gr. 10-up

A classic study telling about the experimental program of putting a Smith-Putnam wind turbine (175-foot, 1250-kilowatt unit) on Grandpa's Knob, Vermont. Also describes basic principles of wind power.

Simmons, Daniel. Wind Power. Noyes Data Corp., Park Ridge, NJ 1975 300pp. $24.00 gr. 12-up

The technology and economics of wind-powered energy systems being developed domestically and overseas.

Wolff, Ben. Wind Energy Bibliography. Windworks, Box 44A, Rte. 3, Mukwonago, WI 53149 1976 (revised) 68pp. $3.00 gr. 9-adult

Collection of books, articles and papers dealing with wind energy and related renewable energy sources.

WATER

Michaelson, David. The Oceans in Tomorrow's World: How Can We Use and Protect Them? (See Elementary.)

BIOMASS

Shelton, Jay and Andrew Shapiro. The Woodburner's Encyclopedia. Vermont Crossroads Press, Waitsfield, VT 1976 156pp. $7.95(pbk) gr. 10-up

Comprehensive and informative book about wood as energy. Clear, detailed text answers questions about feasibility, safety, costs, installation and operation of wood heating. Theory, practice and equipment of woodburning are covered.

Soderstrom, Neil. Heating Your Home With Wood. Times Mirror Magazines/Book Div., New York, NY 1978 $3.95 gr. 10-up

Covers a variety of wood-burning installations for home heating. Written for the total novice, it highlights the economic and aesthetic advantages of using wood as fuel.

Vivian, Joh. Wood Heat (revised edition). Rodale Press, Emmaus, PA 1978 428pp. $7.95 (pbk) gr. 11-up

A non-technical book on the use of wood stoves, furnaces and heaters. Shows how to install, maintain and operate wood heaters for maximum efficiency. Very complete on wood-burning stoves and fireplaces.

Secondary Level cont'd.

Unannotated Bibliography for Secondary Level

Coonley, Douglas. What Do You Know About the Wind? Franklin Institute Press, Philadelphia, PA 1977 gr. 7-12

Grohskopf, B. Children in the Wind. Atheneum Publishers, Paterson, NJ 1977 gr. 6-8

Hogner, D. C. Water Over the Dam. J. B. Lippincott, Philadelphia, PA 1960 gr. 7-9

Zarem, A. Z. Introduction to the Utilization of Solar Energy. McGraw-Hill, New York, NY 1963 $13.50

by Jennifer Harper

College Level

GENERAL RENEWABLE ENERGY

Adams, Anthony. Your Energy Efficient House--Building and Remodeling Ideas. EARS, Box 545, LaVeta, CO 81055 1975 118pp. $4.95 (pbk)

Contains heating and cooling techniques, landscaping, insulating and other uses of sun, wind and climate factors. Profusely illustrated.

Alves, Ronald. Living With Energy: Alternative Sources in Your Home. (See Secondary.)

Bender, Tom. Sharing Smaller Pies. (See Secondary.)

Bossong, Ken. Solar Compendium. Citizens Energy Project, 1110 6th St., NW, Washington, DC 20001 1979 (revised) 194pp. $8.00

Collection of articles addressing all aspects of solar energy, particularly social and economic implications. Examines solar and banking, commercialization, tax credits, and other issues on the use and development of solar technologies.

Clark, Wilson. Energy for Survival: The Alternative to Extinction. (See Secondary.)

Clegg, Peter. New Low-Cost Sources of Energy for the Home. (See Secondary.)

Commoner, Barry. The Politics of Energy. Knopf, New York, NY 1979 101pp. $4.95 (pbk) / $10.00 (hbk) gr. 11-up

As a critique of President Carter's energy plan, the author outlines the multi-faceted path to a solar transition, including the development of "bridging fuels." Recognizes the political action required for shifting to renewable energy.

Commoner, Barry. The Poverty of Power. Bantam Books, New York, NY (See Secondary.)

Council on Economic Priorities. Jobs and Energy. CEP, New York, NY 1979 299pp. Contact source for price

Presents extensive data comparing employment generated by different energy sources. Examined on a regional basis, but applicable nationwide, study results prove that conservation/solar provide more job opportunities.

Davis, Albert and Robert Schubert. Alternative Natural Energy Sources in Building Designs. (See Secondary.)

Eccli, Eugene, ed. Low-Cost Energy-Efficient Shelter for the Owner and Builder. Rodale Press, Emmaus, PA 1976 408pp. $5.95 (pbk)/$10.95 (hbk)

Thorough description of specific energy-saving cost-cutting methods when building or renovating a home. Good articles by experts on financing, design, codes, construction, insulation, etc. Excellent resource for college courses.

Ericson, Katherine. The Solar Jobs Book. (See Secondary.)

Farallones Institute. The Integral Urban House: Self-Reliant Living in the City. Sierra Club Books, San Francisco, CA 1979 $12.95

A holistic approach to self-reliant living in the "Big City." Includes energy conservation, solar, ecological landscaping. Complete with graphs, resource lists, charts and bibliography.

College Level GENERAL cont'd.

Grossman, Richard and Gail Daneker. Energy, Jobs and the Economy. Alyson Publications, 75 Kneeland St., Dept. 345, Rm 309, Boston, MA 02111 1979 124pp. $3.45 (pbk)/ single copy--reduced rate in bulk order

Expanded version of earlier work, Jobs and Energy. Thorough documentation presents the compelling economic argument that a conservation and solar development policy could create "legions" of new workers.

Halacy, Daniel, Jr. Earth, Water, Wind and Sun. (See Secondary.)

Hayes, Denis. Energy: The Case for Conservation. (See Secondary.)

Hayes, Denis. Rays of Hope: The Transition to a Post-Petroleum World. (See Secondary.)

Institute for Local Self-Reliance. Energy Self-Reliance. Institute for Local Self-Reliance, 1717 18th St., NW, Washington, DC 20009 1979 20pp. $1.25 (postpaid) gr. 10-up

Collection of eight articles by various authors looking at the potential of solar cells, the economics of solar energy, and job creation through energy self-reliance.

Kendall, Henry and Steven Nadis. Energy Strategies: Toward a Solar Future. Union of Concerned Scientists/Ballinger Publishing Co., Cambridge, MA 1980 320pp. $7.50 (postpaid from UCS) / $15.00 (hbk)

Carefully compiled study of our nation's energy policies (and lack thereof) culminating in specific energy strategies to lead us to solar. Assesses U.S. energy needs, evaluates non-renewable and renewable resources, and examines energy storage and transmission.

Leckie, Jim, et al. Other Homes and Garbage. (See Secondary.)

Lovins, Amory. Soft Energy Paths: Toward a Durable Peace. (See Secondary.)

Lyons, Stephen, ed. SUN! A Handbook for the Solar Decade. Friends of the Earth/ Solar Action, Inc., San Francisco, CA 1978 370pp. $2.95

Collection of articles on renewable resources by numerous experts in the field. Covers energy policy in social context, solar energy and its use, and the steps to be taken for a solar future.

Maine Audubon Society. Vocational and Industrial Arts Packets. (See Secondary.)

McPhillips, Martin and Solar Age Magazine, eds. The Solar Age Resource Book. (See Secondary.)

Merrill, Richard and Tom Gage. Energy Primer. (See Secondary.)

Montana State Energy Office. Montana Renewable Energy Handbook. (See Secondary.)

Mounts, Richard. The Role of Local Government in a National Energy Strategy. (See Secondary.)

Nash, Hugh, ed. The Energy Controversy: Soft Path Questions and Answers. Friends of the Earth, 124 Spear St., San Francisco, CA 94105 1979 450pp. $6.95 (pbk)

Records Amory Lovins's presentation and defense of his soft energy theories in hearings before Congressional committees. Covers costs, feasibility, and timing of renewable energy technologies.

College Level GENERAL cont'd.

National Council of Churches. Energy and Ethics. NCCC, Energy Education Project, 475 Riverside Dr., Rm. 572, New York, NY 10027 Feb. 1979 50pp $1.00

Part of a trilogy of booklets resulting from an NCCC two-year energy study. Studies the relationship of ethics and energy issues.

Prenis, John, ed. Energy Book #1: Natural Sources and Backyard Applications. (See Secondary.)

Prenis, John, ed. Energy Book #2: More Natural Sources and Backyard Applications. (See Secondary.)

RAIN editors. Rainbook: Resources for Appropriate Technology. RAIN: Journal of Appropriate Technology, Portland, OR 1977 256pp. $7.95 (pbk)

Extremely useful reference book on all renewable energy subjects. Extensive listing of sources and descriptions is selected from the last two-and-a-half years of RAIN magazine. Great graphics are abundant throughout.

Ridgeway, James. Energy-Efficient Community Planning. JG Press, Box 351, Emmaus, PA 18049 1979 221pp. $9.95 (pbk)

Presents 10 case studies of communities across the country that are saving and producing power. A solid text on a new and increasingly popular approach to energy production and distribution.

Shuttleworth, John. Mother Earth News Handbook of Homemade Power. (See Secondary.)

Skurka, Norma and Jon Naar. Design for a Limited Planet: Living With Natural Energy. Ballantine Books, New York, NY 1976 215pp. $5.95

Text, diagrams and photos provide a close look at houses that use all forms of renewable energy. People who have designed or built their solar homes are interviewed. Helpful resource lists included.

Slavet, Julie. NLC Energy Policy Reader. (See Secondary.)

Solar Lobby, et al. Blueprint for a Solar America. (See Secondary.)

Steinhart, John, et al. Pathway to Energy Sufficiency: The 2050 Study. Friends of the Earth, San Francisco, CA 1979 91pp. $4.95 (pbk)

A hard look at American society 70 years in the future if we follow a soft energy path. Describes a low-energy society and how buildings, travel, industry and agriculture will be affected.

Stobaugh, Robert and Daniel Yergin, ed. Energy Future: Report of the Energy Project of the Harvard Business School. Random House, New York, NY 1979 353pp. $12.95 (hbk)

Culmination of six-year energy study. Examines American dependence on imported oil and reviews the problems associated with conventional fuels--natural gas, coal, and nuclear power. Then outlines government policies to promote conservation and solar measures to meet 20 percent of U.S. energy by the year 2000, which they believe solar technologies can provide.

Stoner, Carol Hupping, ed. Producing Your Own Power. (See Secondary.)

College Level GENERAL cont'd.

The Underground Space Center. Earth Sheltered Housing Design: Guidelines, Examples and References. The Underground Space Center, Univ. of Minnesota, Minneapolis, MN 1978 310pp. $10.00 (pbk)

One of the few materials available instructing about earthberming designs, plans and techniques. Existing underground homes serve as examples. Resources and annotated bibliography included.

Vories, Rebecca, et al. Reaching Up, Reaching Out. Solar Energy Research Institute (Available from Superintendent of Documents, U.S. Gov't. Printing Office, Washington, DC 20402; Stock No. 061-000-00345-2) 1979 208pp. $6.00

Inspirational, easy-to-use guide for organizing solar educational programs. Outlines 15 case studies of solar and energy conservation activities. An organizing pioneer highlights key elements of organizing for success. Excellent annotated bibliography of a "survivor's kit" including printed and audio-visual materials.

Wallace, Daniel. Energy We Can Live With. (See Secondary.)

Wing, Charles. From the Walls In. Little, Brown, Boston, MA 1979 226pp. $9.95 (pbk)

Excellent guide for retrofitting existing houses for energy efficiency. Well-known veteran of owner-builder homes, the author is director of Cornerstones School of Shelter Technology in Maine.

SOLAR

Anderson, Bruce. Solar Energy and Shelter Design. Total Environmental Action, Inc., Harrisville, NH 1973 150pp. $7.00

Discusses energy conservation and ways of using solar energy, with specific projects and many useful references. Used as a college text.

Anderson, Bruce and Malcolm Wells. Passive Solar Energy: The Homeowner's Guide to Natural Heating and Cooling. Brick House Publishing Co., Andover, MA 1980 approx. 120pp. $7.95 (pbk)

Aimed at the layperson and professional, covers passive heating and cooling for both new homes and existing structures. With wit and insight, these two experts discuss specific designs for solar greenhouses and porches, thermal walls and roofs, earth-covered shelters, roof ponds and more.

Anderson, Bruce. Solar Energy: Fundamentals in Building Design. McGraw-Hill, New York, NY 1977 374pp. $23.95 (hbk)

Authoritative text with practical information on how to maximize solar energy's utilization in buildings. Geared to professional architectural designers and engineers, but also adaptable to classroom use.

Anderson, Bruce and Michael Riordan. The Solar Home Book. Brick House Publishing Co., Andover, MA 1976 304pp. $9.50 (pbk)/$13.95 (hbk)

A unique, extremely informative, practical book covering energy conservation, passive solar design and active solar systems all in a single, clearly written volume. Both large and small scale projects are discussed. Most comprehensive source to date. Widely used as a college textbook, but geared to non-technical reader.

College Level SOLAR cont'd.

Augustyn, Jim. The Solar Cat Book. (See Secondary.)

Baer, Steve. Sunspots - Collected Facts and Solar Fiction. (See Secondary.)

Barling, John. Solar Fun Book: 18 Projects for Weekend Builders. (See Secondary.)

Behrman, Daniel. Solar Energy: The Awakening Science. Little, Brown & Co., Boston, MA 1976 408pp. $12.95 (hbk) (Or, $10.50 from: Wilderness Society Book Service, 40 Guernsey St., Stamford, CT 06004)

History and principles behind solar energy usage based on author's interview with experts and visits to key solar facilities. Describes both large and small scale applications, and assesses future possibilities.

Brace Research Institute. Survey of Solar Agricultural Dryers. Brace Research Inst., MacDonald College of McGill Univ., Ste. Anne de Bellevue 800, Quebec, Canada 1976 170pp. $8.00

Excellent descriptions of 24 different crop, food and lumber dryers. Photos, diagrams and cost estimates included. (They also offer many other do-it-yourself pamphlets about a wide variety of solar and renewable projects.)

Brinkworth, Brian. Solar Energy for Man. (See Secondary.)

Buckley, Shawn. Sun Up to Sun Down. (See Secondary.)

Butti, Ken and John Perlin. A Golden Thread: 2500 Years of Solar Architecture and Technology. Cheshire Books/Van Nostrand Reinhold, New York, NY 1980 289pp. $15.95 (hbk)/$9.95 (pbk-March '81 release) gr. 10-adult

Traces the evolution of solar architecture and technology through 2500 years of Western civilization. Thoroughly researched and well-documented with authentic photos, diagrams and advertisements extolling solar's virtues.

Campbell, Stu and Doug Taff. Build Your Own Solar Water Heater. (See Secondary.)

Carlson, Bradley. Solar Primer One. SOLARC, Whittier, CA 1975 101pp. $8.95

Coe, Gigi. Present Value: Constructing a Sustainable Future. Friends of the Earth, San Francisco, CA 1979 96pp. $5.95

Case studies ranging from mountain to desert to foggy coastal areas describe solar heating and cooling systems, both active and passive. Architectural drawings and photographs illustrate the text.

Crowther, Richard, et al. Sun/Earth. Charles Scribner's Sons, New York, NY 1977 232pp. $8.95 (pbk)

Considered to be the sourcebook for passive solar building design information. Hundreds of illustrations on how the house and site can act as a solar collector.

Daniels, Farrington. Direct Use of the Sun's Energy. (See Secondary.)

Daniels, George. Solar Homes and Sun Heating. Harper & Row, New York, NY 1976 178pp. $11.95 gr. 10-up

Practical guide to solar heating for the layman. Non-technical descriptions of basic principles, existing systems and techniques for construction and installation.

College Level SOLAR cont'd.

Dawson, Joe. Buying Solar. Federal Energy Administration and HEW Office of Consumer Affairs, available from: Superintendent of Documents, U.S. Gov't. Printing Office, Washington, DC 20402, Stock No. 041-018-00120-4 June 1976 71pp. $1.85

Presents solar facts and figures important to students as well as consumers. A clearly written guide with good advice and intelligent tips on what to be aware of when considering solar systems and the purchase thereof. Charts, tables and solar radiation maps included.

de Winter, Francis. How to Design and Build a Solar Swimming Pool Heater. Copper Development Assoc., New York, NY 1975 46pp. Free

Contains useful information on collector design, construction and economics, although oriented specifically to copper, flat-plate water heating collectors.

Duffie, John and William Beckman. Solar Energy Thermal Processes. Wiley and Sons, New York, NY 1974 386pp. $20.25

Advanced textbook restricted to thermal processes in which solar radiation is absorbed by a surface and converted to heat. Emphasis is on solar meeting thermal energy needs in buildings. Primarily for engineers.

EARS. Solar Directory. (See Secondary.)

Ecotope Group. A Solar Water Heater Workshop Manual. (See Secondary.)

Energy Task Force. No Heat, No Rent: An Urban Solar and Energy Conservation Ma[illegible] The Energy Task Force, New York, NY 1977 90pp. (Available from: U.S. Go[illegible] Printing Office, Stock No. 730-952/10)

Energy conservation and solar installation from an urban perspective. Bas[illegible] retrofitting of the New York City tenement, 519 E. 11th Street.

Environmental Information Center. Build Your Own Solar Water Heater. (See Seco[illegible].)

Ewers, William. Solar Energy: A Biased Guide. Domus International, Library of Ec[illegible]gy, Northbrook, IL 1977 96pp. $4.95

Purpose is to increase public awareness of solar potential and its effective utilization. Non-technical approach with clear diagrams of solar applications and an historical outline of solar development.

Fleck, Paul et al. Solar Energy Handbook. Time-Wise Publications, Pasadena, CA 1975 92pp. $3.95

For the designer and serious experimenter, this small solar facts book provides scientific and engineering definitions and units to aid in constructing solar devices. Also includes cost equivalents and contacts to solar energy organizations. Understandable and instructive.

Foster, William. Build-It Book of Solar Heating Projects (See Secondary.)

Gorham, Jonathan. Solar Concepts. (See Secondary.)

Gropp, Louis. Solar Houses: 48 Energy-Saving Designs. Pantheon Books (Random House), New York, NY 1978 160pp. $8.95 (pbk)

Nation-wide look at new solar homes. Discusses passive, active and underground designs. Includes sections on demonstration houses, retrofitting, insulation, as well as solar terms, legislation and other important items. Vividly illustrated with full-color and black-and-white photos and diagrams.

College Level SOLAR cont'd.

Halacy, Daniel, Jr. The Coming Age of Solar Energy. (See Secondary.)

Hand, Jackson. Home Guide to Solar Heating and Cooling. (See Secondary.)

Hayes, Denis. Energy: The Solar Prospect. (See Secondary.)

Hickok, Floyd. Handbook of Solar and Wind Energy. Cahners Books, Boston, MA 1975 125pp. $20.00

Explores the development of renewable energy resources, postulating that all solar sources will increasingly be used as entrepreneurs discover and exploit them. Provides an overview of solar heating and cooling and related technologies.

Hovel, H. J. Solar Cells. Academic Press 1975 250pp. $14.50

Technical information on photovoltaics (solar cells).

Howell, Y. and J. Bereny. Engineer's Guide to Solar Energy. Solar Information Services, P.O. Box 204, San Mateo, CA 94401 1979 323pp. $27.50

Contains both basic and advanced information about solar technology, including various calculations for sizing a solar system.

Joint Venture and Friends. Here Comes the Sun, 1981: Solar-Heated Multi-Family Housing. (See Secondary.)

Keyes, John. Harnessing the Sun to Heat Your House. (See Secondary.)

Kreider, Jan and Frank Kreith. Solar Heating and Cooling: Engineering, Practical Design and Economics. McGraw-Hill, New York, NY 1977 342pp. $27.50 ($25.95 from EARS)

How-to handbook on solar heating and cooling systems with extensive tables, charts and graph materials. Thorough, detailed and meant for engineers.

Kreith, Frank and Jan Kreider. Principles of Solar Engineering. McGraw-Hill, New York, NY 1978 600pp. $24.50

An engineering text presenting all aspects of solar energy utilization in a teachable framework. Appropriate for college seniors, graduate students and practicing engineers. Emphasis on solar space- and water-heating systems.

Landa, H. C., et al. The Solar Energy Handbook. Film Instruction Company of America, Milwaukee, WI 1977 154pp. $9.00

A compilation of theory, technical data and practical moderate-size applications. Much of this data has been used in texts and related technical books.

Lucas, Ted. How to Use Solar Energy. Ward Ritchie Press, Pasadena, CA 1977 315pp. $7.95

Practical, basic guide to building and buying solar collectors. Includes bibliography, glossary and list of manufacturers. Written for the layperson. (Also the author of How to Build a Solar Water Heater.)

McCracken, H. W. Passive Solar Water Heater. (See Secondary.)

College Level SOLAR cont'd.

McCullagh, James. The Solar Greenhouse Book. Rodale Press, Emmaus, PA 1978 314pp. $8.95 (pbk)

The most comprehensive book to date on designing and constructing solar greenhouses. Also offers a thorough discussion of crop production and the biological implications of solar greenhouses. Resplendent with photos and diagrams illustrating a wide variety of structures in use all over the country, adapted to every kind of home, climate and need.

McVeigh, J. C. Sun Power: An Introduction to the Applications of Solar Energy. Pergamon Press, New York, NY 1977 180pp. $4.95

Analyzes all aspects of solar energy and its global applications. Includes thermal and small scale applications, photovoltaics, biological conversion systems, photochemistry and wind power.

Mazria, Edward. The Passive Solar Energy Book. Rodale Press, Emmaus, PA 1979 Trade: 435pp. $10.95 (pbk)//Professional: 687pp. $24.95 (hbk)

A workbook discussing many passive solar energy systems. Begins with general solar theory, then proceeds into specific design patterns with rules of thumb for system calculations. Two separate editions are available: trade copy for the layman and a more technical and expanded version for professionals and architecture students. Has become widely respected as the passive solar source.

Meinel, Adel and Marjorie Meinel. Applied Solar Energy: An Introduction. Addison-Wesley, Reading, MA 1976 651pp. $17.95

Basic textbook introduction to the theory of solar energy. Intended for college seniors and graduate students.

Merrigan, Joseph. Sunlight to Electricity--The Prospects for Solar Energy Conversion by Photovoltaics. MIT Press, Cambridge, MA 1975 163pp. $12.95

Covers the fundamentals of photovoltaic conversion as well as offering technological forecasts with market analysis and economics to predict future business opportunities.

Messel, H. and S. T. Butler. Solar Energy. (See Secondary.)

Michaels, Harvey. How to Understand Solar Technology and Economics. (See Secondary.)

Morris, David. Dawning of Solar Cells. (See Secondary.)

Norton, Thomas W. Solar Energy Experiments for High School and College Students. (See Secondary.)

Office of Technology Assessment. Application of Solar Technology to Today's Energy Needs. OTA, U.S. Congress, available from: Superintendent of Documents, U.S. Gov't. Printing Office, Washington, DC 20402 Vol. I: June 1978 525pp. $7.00 Stock No. 052-003-00539; Vol. II: Sept. 1978 756pp. $7.00 Stock No. 052-003-00608

Volume I is policy-oriented and presents an overview of major impacts and constraints on solar markets. Summarizes the analysis of system performance and costs, and reviews direct solar technology. Volume II is very technical and composed almost entirely of charts and tables. Discusses analytical methods and systems analysis. Both are definitely geared to the serious student and solar enthusiast. A thorough treatment of the subject.

Palz, W. Solar Electricity: An Economic Approach to Solar Energy. Butterworth, Kent, England. 1977 352pp.

All known ways of converting the sun's radiation into useful power, including technology, cost projections and latest R&D. Assesses future impact of solar on developing and industrialized countries.

Rankins, William and David Wilson. Practical Sun Power. (See Secondary.)

Sands, Jonathon. Solar Heating Systems. (See Secondary.)

Sayigh, A. Solar Energy Engineering. Academic Press, New York, NY 1977 506pp. $39.75 (hbk)

Aimed at advanced engineering students and professionals. Technical selections about solar engineering in storage, conversion, economics and other areas written by such authorities as Yelliot, Meinel and Backus.

Schwartz, Marris Sokol, ed. Harvesting the Sun's Energy. Design III Printing, Fullerton, CA 1975 653pp. $8.00

Compendium of valuable technical information.

Scully, Dan; Don Prowler; and Bruce Anderson. The Fuel Savers: A Kit of Solar Ideas for Existing Homes. Brick House Publishing Co., Andover, MA 1978 64pp. $2.75

Eighteen affordable ways to use solar energy in existing homes. Explains conservation and solar, and offers low-cost ideas for solar retrofitting. Cleverly illustrated, handy size.

Sheet Metal and Air Conditioning Contractors National Assn. Fundamentals of Solar Heating: A Correspondence Course for the Air Conditioning Industry. U.S. Dept. of Energy, Asst. Secretary for Conservation and Solar Applications, Washington, DC 20545 1978 Books free to educators: US DOE, Solar Technology Transfer Branch, CS 60, Forrestal Bldg., Washington DC 20585

Set of textbook (152pp.) and study guide (112pp.) is designed for home study course for home air conditioning contractors but adaptable/applicable to adult education technical courses. (Course enrollment for certification available through Home Study Institute (614) 459-2100.)

Shurcliff, William. Thermal Shutters and Shades. Brick House Publishing Co., Andover, MA 1980 256pp. $12.95 (pbk)/$24.50 (hbk)

Describes 230 devices (homemade and commercially available shutters and shades) that reduce heat loss through windows. Valuable energy conserving/passive solar schemes.

Sinha, Evelyn and Bonnie McCosh. Solar Energy Technology: A State of the Art Bibliography. (See Secondary.)

Solar Age Magazine, eds. Solar Age Catalog. (See Secondary.)

Solar-Ed Corporation. Handbook of Energy Lesson Plans. (See Elementary.)

Stewart, John. How to Make Your Own Solar Electricity. (See Secondary.)

Stromberg, R. P. and S. O. Woodall. Passive Solar Building: A Compilation of Data and Results. NTIS, U.S. Dept. of Commerce, Springfield, VA 1977 71pp. $5.25

Considered the best overview of passive solar heating available to date. Includes design examples and sources of additional information.

College Level SOLAR cont'd.

Sunset Books. Homeowner's Guide to Solar Heating. Lane Publishing Co., Menlo Park, CA 1978 96pp. $2.95

An amply illustrated solar volume serves as a comprehensive beginner's guide. Highly recommended by solar experts for its accuracy and its wide range, from conservation to building codes and thermal zone design.

Sussman, Art and Richard Frazier. Handmade Hot Water Systems. (See Secondary.)

Szokolay, S. V. Solar Energy and Building. Wiley and Sons, New York, NY 1975 148pp. $18.50

Survey of solar heating and cooling techniques. Provides a conceptual understanding of the problems and solutions of solar energy. Contains illustrated architectural review of solar houses including plans and performance data.

TEA, Inc. Solar Energy Home Design in Four Climates. Total Environmental Action, Harrisville, NH 1975 200pp. $12.75

Explains engineering and design methods for solar homes in climatically different regions of the country to illustrate commercial feasibility of solar heating. Extensive tables and references. An architectural background is helpful.

Turner, Rufus P. Solar Cells and Photocells. Howard W. Sams & Co., Indianapolis, IN 1975 96pp. $3.95

Intended for experimenters, technicians and science fair participants. Gives schematics for operating circuits along with information on practical applications of photocells and solar cells.

Volunteers in Technical Assistance. Solar Cooker Construction Manual. (See Secondary.)

Volunteers in Technical Assistance. Solar Grain Dryer. (See Secondary.)

Watson, Donald. Designing and Building a Solar House: Your Place in the Sun. Garden Way Publishing, Charlotte, VT 1977 282pp. $8.95

Details for workable, energy-efficient solar homes. Many drawings, graphs and photos clarify passive and active solar heating and cooling systems and house design. Cost comparison of different systems included.

Williams, J. Richard. Solar Energy: Technology and Applications. (See Secondary.)

Williams, Robert. Toward a Solar Civilization. MIT Press, Cambridge, MA 1978 $12.50

Collection of articles by prominent researchers and policy analysts that address the technological aspects of solar energy. Practical economic considerations strongly emphasized.

Wilson, David. Creating Energy. Lorien House, P.O. Box 1112, Black Mountain, NC 28711 1978 56pp. $5.00 (pbk) gr. 7 and up

A collection of renewable energy projects including ways to concentrate the sun's energy to make steam, to construct a solar furnace and to experiment with solar cells. Complete plans for each project.

College Level SOLAR cont'd.

Wright, David. Natural Solar Architecture: A Passive Primer. Litton Educational Publishing, Inc., New York, NY 1978 245pp. $7.95 (pbk)

Technical and non-technical information on how to effectively use passive (direct) solar in architecture. Explains basic solar concepts and uses in heating and cooling homes and buildings. Printed in script to slow down readers; aimed at students and professionals.

Yanda, Bill and Susan. An Attached Solar Greenhouse. (See Secondary.)

Yanda, Bill and Rick Fisher. The Food and Heat Producing Solar Greenhouse: Design, Construction, Operation. John Muir Publications, P.O. Box 613, Santa Fe, NM 87501 1980 (revised) 208pp. $8.00 (pbk)

Describes the design, construction and operation of a variety of attached solar greenhouses. Illustrated with photos and diagrams of assorted installations as well as sun movement charts. Excellent introduction to the subject.

Yellott, John and Carl MacPhee. Solar Energy Utilization for Heating and Cooling. Total Environmental Action, Harrisville, NH 1974 20pp. $1.00

Considered to be one of the best introductions to the technical and engineering aspects of using solar energy.

WIND

Beedell, Suzanne. Windmills. (See Secondary.)

Burke, Barbara and R. N. Meroney. Energy from the Wind: Annotated Bibliography. (See Secondary.)

Clews, Henry. Electric Power from the Wind. Solar Wind Publications, P.O. Box 420, Norwich, VT 05055 1973 40pp. $2.00

Basic, introductory, non-technical publication dealing with domestic-scale wind electric plants. Includes price list of commercial units. (From same author: Planning a Wind Powered Generating System. Enertech Corp., Box 420, Norwich, VT 05055 1977 46pp. $2.00)

Coonley, Douglas. An Introduction to the Use of Wind. (See Secondary.)

Coonley, Douglas. Design with Wind. Total Environmental Action, Harrisville, NH 1974 148pp. $8.00

Explores the creative use of wind in building designs. Step-by-step descriptions of maximizing wind energy output for different locations and types of wind systems. Includes charts, tables, photographs and resource list of manufacturers and designers.

Coonley, Douglas. Wind: Making It Work for You. (See Secondary.)

Dennis, Landt. Catch the Wind. (See Elementary.)

Eldridge, Frank. Wind Machines. (See Secondary.)

Golding, E. W. The Generation of Electricity by Wind Power. Halsted Books, Wiley and Sons, New York, NY 1976 344pp. $19.00 (hbk)

Definitive research on wind power by the late E. W. Golding with additional chapters by R. I. Harris. Comprehensive details on all aspects of wind machines: history, available energy, sites, structure, generators and economics. British publication.

College Level WIND cont'd.

Hackleman, Michael. The Homebuilt, Wind-Generated Electricity Handbook. (See Secondary.)

Hackleman, Michael and David House. Wind & Windspinners. (See Secondary.)

McGuigan, Dermot. Harnessing the Wind for Home Energy. Garden Way Publishing, Charlotte, VT 1978 134pp. $4.95 (pbk)

Presents all sides to wind power and considers potential of a site, costs and payback. Identifies many types of wind machines now on the market. Includes an annotated list of manufacturers, restorers, agents and bibliography. Very readable.

Park, Jack. Simplified Wind Power Systems for Experimenters. (See Secondary.)

Park, Jack. The Wind Power Book. Cheshire Books, 514 Bryant St., Palo Alto, CA 94301 scheduled for fall 1980 (contact publisher for final date and price) 320pp.

Intended to educate a broad audience. Covers the electricity-generating, pumping, mechanical and home heating powers of wind energy. Encompasses the evolution of windmill design, concentrating on small-scale uses.

Preston, Hayter. Windmills. (See Secondary.)

Putnam, Palmer. Power from the Wind. (See Secondary.)

Reynolds, John. Windmills and Watermills. Praeger Publishers, New York, NY 1975 196pp. $8.95

Photographs, diagrams and detailed descriptions of mechanical power-producing windmills and watermills around the world.

Simmons, Daniel. Wind Power. (See Secondary.)

Torrey, Volta. Wind-Catchers: American Windmills of Yesterday and Tomorrow. Stephen Greene Press, Brattleboro, VT 1976 226pp. $12.95 (hbk)

Colorful history of windmills with particular emphasis on American windmills, describing their design, specifications and capabilities. Very readable commentary on pioneering in this field.

Wolff, Ben and Hans Meyer. Wind Energy. Windworks, Inc., Box 44A, Rte. 3, Mukwonago, WI 53149 1977 64pp. $8.50

Describes different means of capturing and storing wind energy with technical diagrams and illustrations.

College Level cont'd.

WATER

Hagen, Arthur. Thermal Energy from the Sea. Noyes Data Corp., Park Ridge, NJ 1976 150pp. $24.00

Describes continuing R&D on technical feasibility and economic viability of generating either electricity or hydrogen by harnessing the temperature gradients in the sea. Provides condensed data base to aid in proof-of-concept experiments.

Hamm, Hans. Low Cost Development of Small Water Power Sites. Volunteers in Technical Assistance (Available from TEA Bookshop) 50pp. $2.95

Offers guidelines to determine hydropower potential for your water source. Discusses turbines, water wheels, construction of small dam and specific (Michell Banki) turbines.

McGuigan, Dermot. Harnessing Water Power for Home Energy. Garden Way Publishing, Charlotte, VT 1978 101pp. $4.95

Excellent sourcebook explaining how to estimate the power in a stream, where to obtain suitable equipment to harness it and at what price.

Reynolds, John. Windmills and Watermills. (See College WIND section.)

BIOMASS

Auerbach, Les. A Homesite Power Unit: Methane Generator. Alternative Energy Systems, Madison, CT 1973 50pp. $5.00 (pbk)

Report is to aid in the building of Home Power Units which are successfully operating in India and other areas of the world. Includes plans, design, construction and operation of the units.

Bio-Gas of Colorado. Methane on the Move: Small Anaerobic Digesters. Bio-Gas of Colorado, 342 E. Third St., Loveland, CO 80537 1977 96pp. $2.00 (pbk)

Description of experiments testing economic feasibility of building digesters on a small or self-sufficient scale. Includes designs for four sizes of digesters.

Chambers, Robert S. The Small Fuel-Alcohol Distillery: General Description and Economic Feasibility Workbook. ACR Process Corp., 808 S. Lincoln Ave., No. 14, Urbana, IL 61801 1979 21pp. Free

Documents the economics (including financing and payback), technology and marketing of alcohol fuel production in a systematic way. Chambers is considered one of the foremost researchers in the field.

Crombie, Lance. Making Alcohol Fuel--Recipe and Procedure. Micro-Tec Laboratories, Inc., Rt. 2, Box 19, Logan, IA 51546 1979 40pp. $4.50

As a forerunner to larger manual, provides practical information and how-to-do-it ideas not available elsewhere. Includes temperature and yeast data.

DeRenzo, Dorothy. Energy from Bioconversion of Waste Materials. Noyes Data Corp., Park Ridge, NJ 1977 233pp. $32.00

Describes practical arrangements and equipment, large and small, for the anaerobic decomposition of organic wastes to produce methane gas. Provides partial solutions to energy and solid waste problems.

College Level BIOMASS cont'd.

Fry, John and Richard Merrill. Methane Digesters for Fuel Gas and Fertilizer. New Alchemy Institute-West, Box 2206, Santa Cruz, CA 95063 1973 47pp. $3.00 (pbk)

Describes small-scale methane generators using very low-technology and readily available materials. Terminology and important considerations in generating methane explained.

Fry, John. Practical Building of Methane Power Plants for Rural Energy Independence. L.J. Fry, 1223 North Nopal St., Santa Barbara, CA 93103 1977 96pp. $12.00 (pbk)

First practical book on how to design and build a displacement-type methane-generating plant. Includes working diagrams, directions for operation and safety precautions for anaerobic digesters. Good source of practical information.

Gay, Larry. The Complete Book of Heating with Wood. Garden Way Publishing, Charlotte, VT 1974 128pp. $3.95 (pbk)

Basic information on all aspects of wood for burning, wood stoves and heat exchangers. Details on wood preparation, ventilation and humidity, and wasted energy.

House, David. The Compleat Biogas Handbook. At Home Everywhere #5, Rt. 2, Box 259, Aurora, OR 97002 (or EARS) 1978 400pp. $8.00 (pbk)

Good starting point to learn about generating gas from animal and plant wastes. Also a good resource for the serious student, with extensive data and specific information.

Jewell, William, ed. Energy, Agriculture and Waste Management. Ann Arbor Science, P.O. Box 1425, Ann Arbor, MI 48106 1977 540pp. $27.50

Hefty, useful reference source on production of energy from agricultural wastes. Devotes large section to anaerobic fermentation. Detailed study for layperson and civil, agricultural and environmental engineers.

Kern, Ken and Steve Magers. Fireplaces. Owner Builder Publications, Box 550, Oakhurst, CA 93644 1978 $7.00 (pbk)

A persuasive presentation to reinstate the art of fireplace building with heat-conserving designs. Thorough research and years of experimenting with fireplace design and construction support their approach. Large format, clear photos and many excellent drawings. Briefly discusses "fireplace" concept as well.

Lincoln, John. Methanol and Other Ways Around the Gas Pump. Garden Way Publishing, Charlotte, VT 1976 134pp. $5.95 (pbk)

Describes automobile conversion to methanol fuels, methane and alternative engines. Discusses the history of alcohol, how other nations dealt with gasoline shortages and ways to avoid depending on gasoline.

Lindsey, Fred S. Grain Alcohol Study. Indiana Dept. of Commerce, State House, Rm. 336, Indianapolis, IN 46204 1975 67pp. Free

An indexed handbook on alcohol blended motor fuels, alcohol production, industrial alcohol, agricultural capabilities, economics and conclusions. Well documented and easy to use.

McGarry, Michael and Jill Stainworth. Compost, Fertilizer, and Biogas Production From Human and Farm Wastes in the People's Republic of China. Unipub, P.O. Box 433, Murray Hill Sta., New York, NY 10016 1978 94pp. $6.00

Excellent guide to small biogas disgesters. Describes design, construction, maintenance and operation.

College Level BIOMASS cont'd.

Meynell, John. Methane: Planning a Digester. 1976 150pp. $4.95

Explores current methane use and history of its development as an energy source. Advises on safety, planning, cost-benefit analysis, and research programs being conducted.

National Alcohol Fuel Producers Assn. Learning Guide for Alcohol Fuel Production. NAFP Assn., 1700 S. 24th St., Lincoln, NE 68502 1979 600pp. $75 (includes membership)

Assembled as a textbook and work manual for an alcohol production course offered at community college level. Most comprehensive treatment of history, production, financing, regulation and more of alcohol fuel. Singled out by NCAT as the essential cornerstone of an alcohol fuel library.

Nellis, Michi. Makin' It on the Farm. American Agriculture Movement, P.O. Box 100, Iredell, TX 76649 1979 88pp. $2.95

Step-by-step guide to fuel ethanol production from farm crops sprinkled with success stories (Albert Turner, Archie Zeithamer, Lance Crombie, etc.). Also regulations, cost, equipment information. Solidly researched and fully illustrated.

Robertson, E. E. Bioconversion. 1977 64pp. $8.50

Explores the possibilities for returning to biological sources for energy utilization.

Ross, Bob and Carol. Modern and Classic Woodburning Stoves. Overlook Press, Woodstock, NY 1978 156pp. $4.95 (pbk)

All aspects of woodburning stoves are covered: basic principles, selection, operation, various makes and models. Touches on relationship of woodburning and the energy crisis.

Self, Charles. Wood Heating Handbook. TAB Books, P.O. Box 40, Blue Ridge Summit, PA 17214 1977 $5.95

Complete information from planning and installation of woodburning stoves, fireplaces and chimneys to types and preparation of wood. Well written and concise, with detailed diagrams, illustrations and photographs.

Shelton, Jay and Andrew Shapiro. The Woodburner's Encyclopedia. (See Secondary.)

Singh, Ram Bux. Bio-gas Plant: Generating Methane from Organic Wastes. Mother's Bookshelf, P.O. Box 70, Hendersonville, NC 28793 1971 93pp. $10.00

For those studying design and construction of a biogas plant, this offers case studies of working digesters in Germany and India. Discusses design, process operation and development of biogas systems.

Soderstrom, Neil. Heating Your Home With Wood. (See Secondary.)

Solar Energy Information Data Bank (SERI). Fuel from Farms: A Guide to Small-Scale Ethanol Production. Limited number of free copies available from: DOE/TIC, P.O. Box 62, Oak Ridge, TN 37830, Attn: Fuel from Farms. Also available for purchase from: Superintendent of Documents, U.S. Gov't. Printing Office, Washington, DC 20402, Report No. SERI/sp-451-519. 1980 172pp.

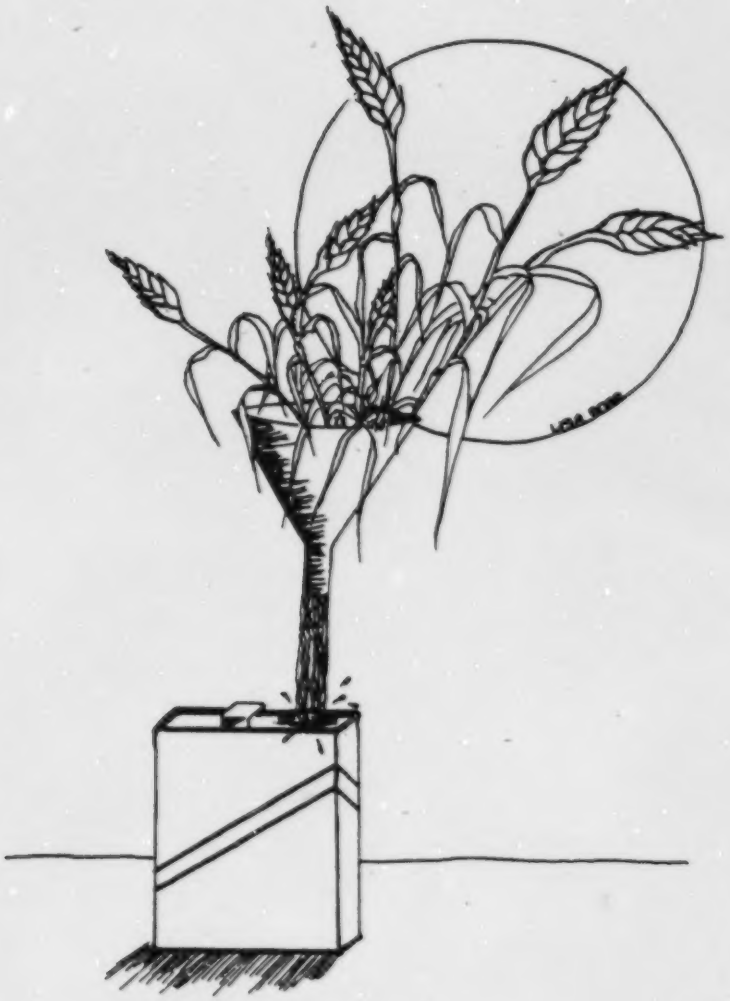
Guide to current on-farm fermentation ethanol production taking into account technical and economic factors. Highly praised, it provides facts necessary to make informed judgments. Good for college and alcohol fuel workshops. Large appendices section.

College Level BIOLMASS cont'd.

Twitchell, Mary. Wood Energy: A Practical Guide to Heating With Wood.
1978 170pp. $7.95 (pbk)

Intended for the beginner and the experienced wood-burner, contains essential information about heating with wood. Includes an equipment listing.

Vivian, John. Wood Heat. (See Secondary.)



AUDIOVISUALS

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Films and Videocassettes

Academy Films
P.O. Box 38753
Hollywood, CA 90038

ACI Media, Inc.
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5451 Marathon St.
Hollywood, CA 90038
(213) 463-0100

Aims Instructional Media, Inc.
626 Justin Ave.
Glendale, CA 91201
(213) 240-9300

AMCEE
Association for Media-Based Continuing Education for Engineers
Georgia Institute of Technology
Atlanta, GA 30332
(404) 894-3362

American Educational Films
132 Lasky Dr.
Beverly Hills, CA 90212

American Film House, Inc.
566 Ann St.
Birmingham, MI 48009

Appalshop Films
118 Main St., Box 743
Whitesburg, KY 41858

Association Films, Inc.
866 Third Ave.
New York, NY 10022

AT&T Co.
Information Dept.
195 Broadway
New York, NY 10007

Audiovisual Services
Office of Educational Media
Colorado State University
Fort Collins, CO 80523

Barr Films
3490 E. Foothill Blvd.
P.O. Box 5667
Pasadena, CA 91107

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145 Scarborough Rd.
Briarcliff Manor, NY 10510

BFA Educational Media
P.O. Box 1795
2211 Michigan Ave.
Santa Monica, CA 90406
(213) 829-2901

Britannica Educational Corp.
1925 N. Lynn St.
Arlington, VA 22209

Kirby Brumfield Energy Productions
Suite 322, Governor Bldg.
408 SW 2nd St.
Portland, OR 97204

Bullfrog Films, Inc.
Oley, PA 19547
(215) 779-8226

Carousel Films
1501 Broadway, Suite 1503
New York, NY 10036

Center for Energy Policy & Research
New York Institute of Technology
Old Westbury, NY 11568
(516) 686-7578

Churchill Films
662 N. Robertson Blvd.
Los Angeles, CA 90069
(213) 657-5110

Coronet Films
65 East South Water St.
Chicago, IL 60601
(312) 977-4000

Danamar Film Productions
275 Kilby
Los Alamos, NM 87544
(505) 672-9766

Document Associates, Inc.
211 E. 43rd St.
New York, NY 10017
(212) 682-0730

Films (cont'd.)

Donars Productions
P.O. Box 24
Loveland, CO 80537

Educational Media Center
University of Colorado
Stadium Building
Boulder, CO 80309
(303) 492-7341

Encyclopedia Britannica Education Corp.
425 N. Michigan Ave.
Chicago, IL 60611
(312) 321-6800

Environmental Action Reprint Service
of Colorado (EARS)
Box 545
La Veta, CO 81055
(303) 742-3221

Essentia
Salina Star Route
Boulder, CO 80302
(303) 443-3484

Film Library
Cornell University
55 Judd Falls Rd.
Ithaca, NY 14853

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100 E. 21st St.
Brooklyn, NY 11226

Handel Film Corporation
8730 Sunset Blvd.
West Hollywood, CA 90069
(213) 657-8990

IIT/V
Illinois Institute of Technology
IIT Center
Chicago, IL 60616
(312) 567-3460

International Film Bureau, Inc.
322 S. Michigan Ave.
Chicago, IL 60604
(312) 427-4545

Fred James/Lumen-Bel, Inc.
303 W. 11th St., Box 311
New York, NY 10014
(212) 243-3426

Journal Films, Inc.
930 Pinter Ave.
Evanston, IL 60602
(312) 328-6700

Dennis Karlstad
2330 Barano
Sacramento, CA 95825
(415) 524-7353

Hal Kirn & Associates
1700 Addison St.
Philadelphia, PA 19146
(215) 546-8887

Learning Corporation of America
1350 Avenue of the Americas
New York, NY 10019

MacMillan Films
866 3rd Avenue
New York, NY 10022

Malibu Films, Inc.
Box 428
Malibu, CA 90265

McGraw-Hill Films
110 15th St.
Del Mar, CA 92014
Attn: Stephanie Bond
(714) 453-5000

Minnesota Power & Light Co.
30 W. Superior St.
Duluth, MN 55802

Modern Talking Picture Service
2323 New Hyde Park Rd.
New Hyde Park, NY 11040
(516) 437-6300

Arthur Mokin Productions
17 W. 60th St.
New York, NY 10023

Montage Educational Films
P.O. Box 33992
Seattle, WA 98133

National Audiovisual Center (NAVC)
General Services Admin.
Order Section/RR
Washington, DC 20409
(301) 763-1896

Films (cont'd.)

National Geographic Society/
Educational Services
17th & M Streets, NW, Dept. 78
Washington, DC 20036
(301) 948-5926 or
(202) 857-7000 ext. 1330/31

National Training Fund,
Sheet Metal & Air Conditioning Industry
1900 L St., NW, Suite 405
Washington, DC 20036
(write on your organization stationery)

Paramount Pictures Corp.
Non-Theatrical Division
5451 Marathon St.
Hollywood, CA 90038
(213) 463-0100

Perspective Films
369 West Erie St.
Chicago, IL 60610

Phoenix Films, Inc.
470 Park Ave., South
New York, NY 10016
(212) 684-5910

Gene Piotrowsky Enterprises
107 Morton St.
New York, NY 10014
(212) 929-1343

Popular Science Publishing Co.
355 Lexington Ave.
New York, NY 10017

P.R.L.
1822 Pickwick Ave.
Glenview, IL 60025

The Public Television Library
475 L'Enfant Plaza, SW
Washington, DC 20024

Pyramid Films
2801 Colorado Ave.
P.O. Box 1048
Santa Monica, CA 90406

James L. Ruhle & Associates
P.O. Box 4301
Fullerton, CA 92631
(714) 526-6120

Self-Reliance Foundation
Las Trampas, NM 87576
(505) 689-2250

Singer Education Division
Society for Visual Education
1345 Diversey Parkway
Chicago, IL 60614

Solar Bookshop
Total Environmental Action, Inc.
Church Hill
Harrisville, NH 03450

The Solar-Ed Corporation
1627 Litchfield Turnpike
P.O. Drawer X
Woodbridge, CT 06525
(203) 624-5151

Solar Energy Educational Service, Inc.
(S.E.E.S.)
P.O. Box 307
Eaton, CO 80615
(303) 454-3618

Solar Engineering Magazine
8435 N. Stemmons Freeway
Suite, 880
Dallas, TX 75247

Solar Sources Corp.
Bankers Trust Office Park
Hilton Head, SC 29928
Attn: Ren Frutkin
(803) 785-8818

Solarium Productions
1061 31st St., NW
Washington, DC 20007
(202) 337-6526

Sterling Educational Films/
Div. of Walter Reade Organization, Inc.
241 E. 34th St.
New York, NY 10016

Third Eye Films
12 Arrow St.
Cambridge, MA 02138
(617) 491-4300

Time-Life Multimedia
Time-Life Building
1271 Avenue of the Americas
New York, NY 10020
(also--see next page)

Films (cont'd.)

Time-Life Multimedia
Distribution Center
100 Eisenhower Drive
Paramus, NJ 07652
(201) 843-4545

Troll Associates
320 Rt. 17
Mahwah, NJ 07430

Unit 1 Film Producers
540 W. 114th St.
New York, NY 10025
(212) 865-6201

U.S. Department of the Army
New England Division
Corps of Engineers
424 Trapelo Road
Waltham, MA 02154

U.S. Department of Energy
Film Library
Technical Information Ctr. (TIC)
P.O. Box 62
Oak Ridge, TN 37830
(615) 483-8611, ext. 34161

University of California
Extension Media Center
2223 Fulton Street
Berkeley, CA 94720
(415) 642-0460

Utah State Board of Education
250 E. Fifth South
Salt Lake City, UT 84111

Ward's Natural Resources
Establishment, Inc.
P.O. Box 1712
Rochester, NY 14603

Xerox Educational Films
245 Long Hill Rd.
Middletown, CT 06457
(203) 347-7251

Zomeworks Corporation
P.O. Box 712
Albuquerque, NM 87103

Slideshows

Alternative Sources of Energy
Rte. 2, Box 90A
Milaca, MN 56353
(612) 983-6892

Butti/Perlin
511-A Strand St.
Santa Monica, CA 90405
(213) 399-1742

Cheyenne Community Solar Greenhouse
1603 Central Ave., #400
Cheyenne, WY 82001
Attn: Shane Smith
(307) 635-9340

Consumer Action Now (CAN)
Council on Environmental Alternatives
355 Lexington Ave., 16th fl.
New York, NY 10017
(212) 682-8915

Ecotope Group
2332 E. Madison
Seattle, WA 98112

Energy Learning Systems, Inc.
390 Linebrook Rd.
Ipswich, MA 01938

Epoch B
Evanston Environmental Association
2024 McCormick Blvd.
Evanston, IL 60201

Kai Dib Films, International
P.O. Box 261
Glendale, CA 91209

New England Solar Energy Association
P.O. Box 541
Brattleboro, VT 05301

Passive Solar Institute
P.O. Box 722
Davis, CA 95616

Roaring Fork Resource Center
P.O. Box 9950
Aspen, CO 81611
(303) 925-8885

Self-Reliance Foundation
(See Films section)

Slideshows (cont'd.)

Solar Energy Institute of North America
1110 6th St., NW
Washington, DC 20001

The Solar Sustenance Team
P.O. Box 733 AA
El Rito, NM 87530
(505) 581-4454

Filmstrips

Crystal Productions
Airport Business Center
Box 11480
Aspen, CO 81611
(303) 925-8160

Educational Activities, Inc.
P.O. Box 392
Freeport, NY 11520

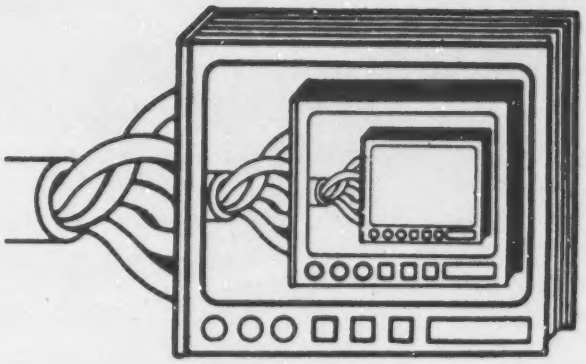
Inquiry Audio-Visuals
1754 W. Farragut Ave.
Chicago, IL 60640
(312) 561-9200

The Polished Apple
3742 Seahorn Dr.
Malibu, CA 90265
(213) 459-2630

Prentice-Hall Co.
Customer Service Dept.
151 White Plains Rd.
Tarrytown, NY 10591

Self-Reliance Foundation
(See Films section)

Society for Visual Education, Inc.
1345 Diversey Parkway
Chicago, IL 60614



Films

All are 16 mm with sound, unless otherwise noted. All known details are listed. These films were selected because they portray renewable energy sources (sun, wind, falling water and biomass) in an educational manner. A few general energy films are included for very young students.

"The Age of the Sun" Glen/Kaye Films or Gene Piotrowsky Enterprises
Rental: $35 (available from EARS for $21)
Purchase: $325 21 min. color 1974 gr. 10-adult

Shows specific examples of solar technology and installations in use in the United States. Covers a wide variety of methods, and explains the advantages, disadvantages and potential of solar.

"Backyard Alternative Energy" Kirby Brumfield
26 min. color 1978

Kirby and Lee Brumfield, father and daughter, sought out and photographed the "backyard" solar, water, wind, methane, geothermal, and biomass projects of the people who are doing instead of talking.

"Bates' Car: Sweet as a Nut" Arthur Mokin
Rental: $25 16 min. color 1976 gr. 7-adult
Purchase: $245 (also available on videocassette)

British inventor Harold Bates developed a methane digester that converts animal waste into clean octane fuel.

"The Big Sun and Our Earth" Coronet Films
Purchase: $150 10 min. color 1957 gr. K-3

Basic concepts about the sun and its relationship to the earth. A young boy observes how the earth's environment changes as life systems respond to light and darkness.

"Bill Loosely's Heat Pump" Bullfrog Films
Rental: $18.50 10 min. color 1977 gr. 7-adult
Purchase: $165 (also available on videocassette)

Describes how Bill has heated his home in Ontario, Canada, since 1951 by tapping underground heat outdoors and pumping it inside. Animated diagrams clearly explain this simple system.

"Build Your Own Greenhouse--Solar Style" Danamar Film Productions
Rental: $58.50/3 days 21 min. color 1978
Purchase: $350 (includes books)

Presents an innovative approach to obtaining free heat from the sun and fresh food for the table. Shows a group of volunteers building an attached solar greenhouse, and explains basic principles and building techniques. Interesting and fun.

"A Building In the Sun" Bullfrog Films
Rental: $31 20 min. color 1978 gr. 8-adult
Purchase: $300 (also available on videocassette)

Studies the construction of one of the largest privately financed commercial-sized underground/solar buildings in the U.S. This working, economical, attractive building was designed and built to have as little environmental impact as possible.

"A City Farmstead" Phoenix Films, Inc.
Rental: $25/1 day 15 min. color 1978 gr. 7-adult
Purchase: $240 (also available on videocassette)

Examines the solar systems, waste recycling and food production of the Integral Urban House. Documents the transformation of a dilapidated Victorian home into a self-reliant, energy-efficient habitat.

"Coping With Tomorrow: Solar Energy" ACI Media, Inc.
Rental: $35/day 16 min. color 1975 gr. 9-adult
Purchase: $340

Discusses the sun as the historical heat source and illustrates modern uses of its power, highlighting several projects in France. Environmental advantages of solar and other natural power are emphasized.

"Dawn of the Solar Age: Solar Energy (Part 1) Wind and Water Energy (Part 2)" Time-Life Multimedia Distribution Center
Rental: $60 (both titles) 29 min. color 1977 gr. 10-adult
Purchase: $650 (both titles), $325 (videocassette)
$375 (individual film), $190 (individual videocassette)

Explores through photography, animation, charts, diagrams and clear presentation, efforts to convert, store and use energy from the sun, wind and water. The efficiency and inherent problems of these energy sources are explained. From Nova series.

"Decision: Energy for the Future" Bullfrog Films
Rental: $23.50 12 min. color 1978 gr. 4-adult
Purchase: $195

Animated film amuses while educating its audience about our fossil fuel dependence. Steers towards a clear solution--switching to renewable resources. Includes study guide.

"Design With the Sun: Passive Solar Architecture" Danamar Film Productions
Rental: $58.50 28 min. color 1979
Purchase: $375

Leading solar experts tour coast to coast to unveil innovative passive solar designs and building techniques. Covers basic concepts, climatic and site considerations, construction materials and techniques, and other details.

"Desert Cloud" Bullfrog Films
Rental: $28.50 18 min. color 1976 gr. 7-adult
Purchase: $270

A solar air structure self-inflates and rises from the desert floor of Kuwait. An inspirational example of passive solar principles, the "cloud" creates needed shade and even causes "rain" as water condenses on its underside.

"Down to Earth City Living" Pyramid Films
Rental: $30 18 min. color 1977 gr. 7-adult
Purchase: $250 (film), $190 (videocassette)

Depicts transformation of an urban dwelling into an almost self-sufficient habitat. (Integrated Urban House, Berkeley, CA). Includes ways to use renewable energy and to recycle water and organic waste. Accompanied by teacher's guide. Slightly longer and more in-depth look than shown in "A City Farmstead."

"E. F. Schumacher: As If People Mattered" Bullfrog Films
Rental: $28.50 16 min. color 1978 gr. 7-adult
Purchase: $250

Presents leader of small-scale thinking, E. F. Schumacher, delivering his philosophies and reasons for decentralized technology and local, humane economies. Uses the world energy situation for examples.

"Energy: A Family Album" DOE-TIC
Free Loan 9 min. color 1977 gr. 7-12
Purchase: $52.25 (from National Audiovisual Center)

Presents a history of energy in America and the nation's plan to keep ahead of energy demands with alternate sources of power like solar energy and geothermal.

"Energy: A First Film" BFA Educational Media
Rental: $15 8 min. color 1971 gr. K-6
Purchase: $125

Illustrates that the sun provides most of our energy. Shows how green plants use solar rays to produce food.

"Energy and Power: A First Look" Journal Films, Inc.
Purchase: $135 gr. 1-6

Introduces how man harnesses energy and increases his capacity to do work. Emphasizes the early discoveries of simple machines and use of renewable resources.

"Energy Crunch: The Best Way Out" Carousel Films
Rental: Inquire at Carousel 51 min. color 1980
Purchase: $685 (16 mm film), $575 (videocassette)

CBS News Documentary, featuring correspondent Dan Rather, outlines specific ways to conserve energy. Includes conservation actions taken by local governments and community groups, as well as information on solar and alternative energy sources.

"Energy for the Future" P.R.L.
Rental: $23 17 min. color 1974 gr. 10-college
Purchase: $240 (from Britannica Educational Corporation)

Features energy alternatives, including solar and wind technologies. Considers social and environmental consequences of changing to new energy sources.

"Energy from the Day Star" Essentia
Rental: $35 22 min. color 1979 gr. 4-adult
Purchase: $300 Preview for purchase consideration: $15
(Fee may be waived by schools and libraries.)

Explores the reality of solar energy today in relation to human values. Examines the philosophical and practical implications of this quiet revolution. Passive solar buildings are shown and active systems briefly introduced.

"Energy from the Sun" Encyclopedia Britannica Education Corp.
Purchase: $70 11 min. Black & White 1955

Illustrates importance of the sun as the earth's major energy souce. Describes photosynthesis, present and future uses of solar energy. Beware: Quite dated.

"Energy: Harnessing the Sun" University of California Extension Media Center
Rental: $33 19 min. color 1974 gr. 7-adult
Purchase: $255 (from Sterling Educational Films)

Simple introduction to various uses of solar energy, both active and passive. Reviews current energy situation for fossil fuels, showing need for solar.

"Energy In Perspective" Modern Talking Picture Service, Inc.
Free Loan 21 min. color 1978 gr. 10-adult

Examines the limits of the world supply of fossil fuels and the ridiculous, over-consuming habits that need changing. Considers alternate energy sources.

"Energy: Less is More" (#4 of 4-part series) Churchill Films
Rental: $21 18 min. color 1973 gr. 7-adult
Purchase: $280

Investigates ways to slow the growth of energy consumption. Considers changes in transportation, building designs, and use of recycling and renewable resources for self-sufficiency.

"Energy Monsters: How to Starve Them" BFA Educational Media
Rental: $35/3 days 12½ min. color 1978 gr. 1-9
Purchase: $195 (Code 11802)

While making a solar oven, two children start thinking about all our energy needs and sources. They embark on an energy conservation campaign in their homes. Comes with teacher's guide.

"Energy: New Sources" (#3 of 4-part series) Churchill Films
Rental: $25 20 min. color 1974 gr. 9-adult
Purchase: $300

For the true newcomer to the energy debate. Superficially describes uses of solar cells, panels for hot water and temperature control in buildings, and heat for generating electricity. Briefly covers wind, tides, and methane.

"Energy: The Facts, the Fears, the Future" BFA Educational Media
Rental: $55 55 min. color 1978 gr. 10-adult
Purchase: $650

Walter Cronkite and a CBS News Team tour all over the U.S. to assess the severity of the energy problem and how people are coping. Concludes that a flexible strategy involving conservation and alternative energy sources is needed---<u>now</u>.

"Energy: The Problems and the Future" National Geographic Educational Services
Rental: $25 (call Karol Media (201) 262-4170 for details)
Purchase: $310 (also on videocassette) 23 min. color 1978 gr. 7-adult

Examines the potential of nonpolluting, renewable energy resources found in the four basic elements--water, earth, wind, and fire from the sun. Solar projects all over the world are shown, demonstrating the feasibility of a variety of systems, including tidal, wind, and passive solar power. Includes a teacher's guide.

"Energy Sources: A Matter of Policy" Educational Media Ctr., Univ. of Colorado
Rental: $11/3 days 29 min. color gr. 9-adult
Purchase: $333

Traces the historical use of energy in the U.S. and discusses the public policies necessary to curb energy uses and develop alternative energy sources.

"Energy: The Ultimate Problem" Coronet Films
Purchase: $155 (also on videocassette) 10 min. color 1976 gr. 7-12

Focuses on the social implications of the energy shortage, as viewed from a variety of professionals' perspectives. Examines conservation and developing new sources of energy.

"Energy: What About Tomorrow?" Barr Films
Rental: $29.50 20 min. color 1978 gr. 7-12
Purchase: $295

Explores solar, geothermal and other alternate sources of energy to provide us with sufficient power. Makes the point that a single source will not meet our future energy needs.

"A First Film on the Wind" BFA Educational Media
Rental: $15/3 days gr. K-3

Illustrates the many ways the wind works even though it cannot be seen.

"Food: Energy from the Sun" BFA Educational Media
Rental: $15/3 days 10 min. color 1966 gr. 4-9
Purchase: $125

Presents the concept of living things' dependency upon the sun as the main source of energy. Follows food chains that begin with solar energy and end with humans.

"Food from the Sun" Encyclopedia Britannica Education Corp.
Rental: $12/3 days; $2 ea. additional day
Purchase: $150 9 min. color 1966 gr. K-3

Demonstrations and animation show young children how all life on earth relies on the sun's energy. Shows basic processes of energy conservation and storage in food.

"Gift from the Sun" Unit 1 Film Producers
Rental: $15 13 min. color
Purchase: $210

Describes the solar heated and cooled environmental education center built by the community in Somerset County, New Jersey. Describes ecological relationships between the earth and sun.

"Green Plants and Sunlight" Encyclopedia Britannica Education Corp.
Purchase: $150 gr. 4-6

Shows how green plants manufacture food from the sun's rays. Points out human dependence on this process, one which cannot be duplicated in the laboratory.

"Gusts of Power" U.S. Dept. of Energy Film Library - TIC
Rental: Free Loan 14 min. color 1979
Purchase: Approx. $100

Covers rural and agricultural applications of currently operating wind machines. Included are examples of deep well pumping and irrigation, building and water heating, cooling for crop storage and refrigeration for dairy farms.

"Harness the Wind" Bullfrog Films
Rental: $23.50 12 min. color 1979 gr. 8-adult
Purchase: $200

Novel animation techniques unveil the history of wind power from ancient Persian users to contemporary Darrieus machines. Illustrates how windmills have been refined and why. Accompanied by study guide. Produced by National Film Board of Canada.

"Harvest of the Sun" Audiovisual Services - Colorado State University
Rental: $20 15 min. color
Purchase: $200

Describes some of the ways the sun's energy is being harnessed and used daily in homes, business, and industry.

"Here Comes the Sun" U.S. Dept. of Energy Film Library - TIC
Rental: Free Loan 15 min. color 1974 gr. 7-12
Purchase: $87 (from Nat'l. Audiovisual Center)

Shows various solar energy systems at work on four school buildings. Students, teachers and their communities learn about retrofitting buildings with solar equipment.

"Home Heating With Wood" Cornell University Film Library
23 min. 1978 gr. 7-adult

Recognizing the difficulty in finding films on biomass, this answers a multitude of questions on wood use and safety. Considers wood heat efficiency; useful for current or prospective wood stove users.

"The Hottest Show On Earth" Macmillan Films, Inc.
Rental: $35 (also from Modern Talking Pictures)
Purchase: $350 28 min. color 1977 gr. 10-adult

Entertains while instructing about the importance of home insulation and energy conservation. Clever mixing of animation and live action with the use of infrared photos, interviews and shots of actual installing of insulation.

"How to Make a Solar Heater" Handel Film Corporation
Rental: $29 20 min. color 1977 gr. 4-12
Purchase: $290

Explains the principle of solar energy applications via a young boy's quest for a warm workshop. Presents step-by-step construction of a functional solar heater costing less than $100. Do-it-yourself approach suggests a classroom project. Comes with a teacher's guide.

"Industrial Large-Scale Energy Systems" Dennis Karlstad
32 min. Black & White

Presents a variety of renewable resource projects throughout North America. Examples include solar, wind, and methane powered projects, as well as information on energy-efficient designs.

"Japan and the Sun" Association Films, Inc.
27 min. color gr. 7-adult

Shows the major role the sun plays in Japanese life, and their efforts to create new ways to harness it. Focuses on rural Japanese agricultural communities and fishing villages as well as urban areas. Also shown are scientists working on solar energy development.

"Learning About Solar Energy" Paramount Communications
Purchase: $210 10 min. color 1975 gr. 4-8

Group of children build a small house to experiment with sun's energy. Cooking over a fire and on a solar cooker demonstrate indirect and direct solar energy, followed by other solar experiments.

"Life From the Sun" International Film Bureau, Inc.
Purchase: $165 gr. 9-12

Offers an overview of the sun's influences on life. Focuses on the physical and biological phenomena resulting from the sun.

"Living the Good Life" Bullfrog Films, Inc.
Rental: $33.50 30 min. color 1977
Purchase: $375

An older couple, the Nearings, prove that it is entirely possible to live a full and balanced life on the land without any fossil fuels. Award winner.

"Look to the Sun" U.S. Dept. of Energy Film Library - TIC
Rental: Free Loan 12 min. color 1977 gr. 10-adult
Purchase: $69.50 (from National Audiovisual Center)

An historical review of solar energy projects and a look at those planned for the future. Businessmen, public officials and a solar researcher examine ways to design, finance and build solar projects around the nation, and make them work economically and efficiently.

"Mac's Mill" Bullfrog Films
Rental: $23.50 12 min. color 1976 gr. 7-adult
Purchase: $195

A forester, Mac Armstrong, wisely manages his 2000 acres of woodland and uses a nearby stream to power his sawmill. Illustrates how neglected technologies should be aroused for a comeback.

"The New Alchemists" Benchmark Films, Inc.
Rental: $50 29 min. color 1975 gr. 6-adult
Purchase: $475

Documents the experiments of a group of scientists and their families on a plant and fish farm near Falmouth, Massachusetts. Working toward self-sufficiency and integrated biological systems, they use organic fertilizers, aquaculture, solar heat and wind energy.

"New Mexico Passive Solar Buildings" U.S. Dept. of Energy Film Library - TIC
Rental: Free Loan 14 min. color 1978 gr. 9-adult
Purchase: $81.25 (from National Audiovisual Center) (also on videocassette)

Looks at solar buildings operating on three passive principles: direct gain, thermal storage, and solar greenhouses. A semi-technical presentation of interest to audiences in the Southwest and anywhere else.

"The New Western Energy Show" Bullfrog Films (Also available from:
Rental: $33.50 25 min. color all ages New Western Energy Show
Purchase: $365 (film) 226 Power Block
$350 (videocassette) Helena, MT 59601)

Documents an inspirational Montana-based performing arts group that promotes renewable energy. Shows behind-the-scenes building of displays, scenery, writing and rehearsing energy skits and music. Then joins the audiences of children and adults as they watch several skits and participate in workshops.

"The Other Way" Time-Life Multimedia
Rental: $35 26 min. color 1975 gr, 9-adult
Purchase: $335 (also on videocassette)

Economist E. F. Schumacher suggests that the solution to the energy crisis may lie in new lifestyles rather than increased production of fossil fuels. Discusses intermediate technology for a transition away from current energy use patterns.

"Our Mr. Sun" AT&T Co., Information Dept., 195 Broadway, New York, NY 10007
60 min. color 1956 gr. 2-12

Part I reviews the sun from the Old World viewpoint, its effects upon life on earth. Part II examines efforts to harness the sun's energy. A pioneer in its genre.

"Pedal Power" Bullfrog Films
Rental: $28.50 18 min. color 1978 gr. 5-adult
Purchase: $270 (also on videocassette)

Introduces the fundamental energy concept of matching the energy source to the end task. Traces history of bicycle-powered machines that have efficiently converted human muscle into work energy.

"A Place to Live" Fred James/Lumen-Bel, Inc.
Rental: $75 24 min. color 1978 gr. 7-adult
Purchase: $375

Documentary about the Shelter Institute of Bath, Maine, where individuals learn how to build their own energy-efficient homes for the cost of a normal down-payment. Passive design, how the sun heats and cools a structure, is carefully explained.

"The Power to Change" Third Eye Films
Rental: $40 28 min. color 1980 gr. 9-adult
Purchase: $375 (preview at no charge to organizations with film collections)

Introduces the basic concepts of appropriate technology by examining eight projects across the country ranging from solar and wind energy systems to recycling and community-sponsored programs. Demonstrates that alternatives to traditional energy production, distribution and use are working realities.

"Power Without End" Xerox Education Productions
Purchase: $310 (film) 16 min. color 1975 gr. 4-12
$205 (videocassette)

Explores renewable resources (sun, wind, tides and hydro) and how science has succeeded in harnessing these energy sources.

"Project Ouroboros" Dennis Karlstad
25 min. Black & White

A professor lectures on the results of work done by 300 design students in the areas of solar heating, sanitation, windmill electricity and gardening.

"Project Sage" U.S. Dept. of Energy Film Library - TIC
Free Loan 9 min. color 1977 gr. 7-12
(For sale from: Madison Films, Inc., 215 E. 49th St., New York, NY 10017)

Documents installation of solar collectors and appropriate piping to supply hot water to 40 apartment units at a small complex near Los Angeles. Shows that the system is simple and saves a great deal of fossil fuel.

"Putting Energy Alternatives to Work" American Film House, Inc.
Rental: $25 15 min. color 1977 gr. 7-adult
Purchase: $185

Documents 1976 Upland Hills Alternative Energy Workshop in Michigan where participants built passive solar heaters, a Savonius rotor wind machine, a methane digester and an active solar space heating system. Workshop attendees describe their experiences, with enjoyable folk music in the background.

"Putting the Sun to Work" American Educational Films
Rental: $15 5 min. color 1976 gr. 7-adult
Purchase: $100 (also on videocassette)

Searches for and reveals ways electricity can be produced from the sun.

"Putting the Sun to Work" U.S. Dept. of Energy Film Library - TIC
Rental: Free Loan 5 min. color 1974 gr. 7-college (& technicians)
Purchase: $29 (from National Audiovisual Center)

Three leading solar experts describe current schemes for harnessing solar power. Domestic and industrial usages are emphasized.

"River to the Sun" Minnesota Power and Light Company
Rental: Free Loan 20 min. color 1973 gr. 7-9
Purchase: $200

Portrays man's progress in changing his dependency on limited energy sources to the infinite source of energy, the sun.

"Rubbish to Riches" Aims Instructional Media
Rental: $25 11 min. color 1979 gr. 4-8
Purchase: $195 (also available on videocassette)

Shows a few ways waste products can be converted into fuel and trash can be recycled into usable products. Visits several experimental recycling plants where this process is being used.

"Solar Cookers: Something New Under the Sun" Univ. of Calif., Extension Media Center
Rental: $19 gr. 9-12

Studies the use of solar energy devices in rural regions. Engineers and anthropologists collaborate to adapt solar technology to be useful in underdeveloped areas.

"Solar Energy" Document Associates
Rental: $40/2 days 20 min. color 1976 gr. 9-adult
Purchase: $340

Considers energy from the sun and the moon (solar energy and tidal power) as viable alternatives for use worldwide.

"Solar Energy" Montage Educational Films
13½ min. color

Past, present and future of solar power is reviewed, emphasizing solar architecture, high and low temperature conversion, ocean thermal, solar cells and biomass.

"Solar Energy: How It Works" Churchill Films
No Rental 15 min. color 1979 gr. 5-adult
Purchase: $250 (available on videocassette)

Describes how the sun's energy can be used by absorption, concentration, conversion to electricity, and in proper building design. Each of four principles is explained by a child through an experiment or simple application, followed by examples in the community.

"Solar Energy: The Great Adventure" U.S. Dept. of Energy Film Library - TIC
Rental: Free Loan 27 min. color 1979 gr. 7-adult
Purchase: $178.75 (from National Audiovisual Center)

Through series of interviews with people working with all forms of solar energy--sun, wind, water and biomass--the message comes through that solar is ready now. Shows rural and urban projects all over the country with emphasis on small-scale, decentralized methods. Narrated by Eddie Albert.

"Solar Energy: To Capture the Power of Sun and Tide" ACI Media, Inc. (also available through Paramount Communications)
Purchase: $265 21 min. color 1975 gr. 7-college

Tidal and solar power possibilities explored. Examines experimental large- and small-scale solar projects ranging from a sun furnace in the Pyrenees to an owner-built solar rain water collector at Brace Institute, Canada.

"Solar Energy Today" Center for Energy Policy and Research
Rental: $25/week 55 min. color Available in broadcast format for TV airing as 3/4" videocassette.

Reviews current solar energy applications and related energy-conserving building design. Interview with Fred S. Dubin, nationally recognized expert in solar energy and design of energy-conserving buildings and operating systems. Shows solar homes and other installations, related materials on design, effectiveness, aesthetics of practical solar energy systems.

"Solar Energy: Unlimited Power" Montage Educational Films
Rental: $25 13½ min. color 1977 gr. 9-adult
Purchase: $225

Concentrates strictly on solar energy. Offers an overview of solar power principles, ocean thermal conversion and a particularly good description of photovoltaics.

"The Solar Frontier" Bullfrog Films
Rental: $33.50 24 min. color 1978 gr. 7-adult
Purchase: $370

Three solar-heated homes in the Canadian snow belt illustrate the practical and economical aspects of solar energy. The houses are for average-income families. The cost, performance and technology are explained by the architects and residents.

"The Solar Generation" U.S. Dept. of Energy Film Library - TIC
Free Loan 21 min. color 1976 gr. 7-adult
(Also available: Rental: $35
Purchase: $350; Videocassette, $525
from Stuart Finley, Inc., 3428 Mansfield Rd., Falls Church, VA 22041)

Traces the development and use of solar energy from ancient to present. Follows progress of solar cell technology, solar homes and office buildings, thermal plants, etc. Energy experts agree solar usage will increase in this lifetime, making it the solar generation.

"Solar Power" Handel Film Corporation
Purchase: $320 20 min. color 1980 gr. 7-adult

Intends to present a realistic view of solar's potential by explaining various systems. Includes active and passive thermal heat and electricity from photovoltaics.

"The Solar Promise" Bullfrog Films
Rental: $38.50 28 min. color 1979 gr. 8-adult
Purchase: $410 (also on videocassette)

A very thorough film emphasizing active and passive solar energy use. Highly educational, vivid out-door photography presents a nationwide sampling of solar projects. Shows that individuals, not institutions, are being the most creative in solar development today. Includes teacher's guide.

"Solar Radiation" Parts I & II Ward's Natural Resources Establishment, Inc.
Purchase: $198 (part I) gr. 9-12
$220 (part II)

Illustrates the concept that energy radiated by the earth must balance energy received from the sun. In two parts.

"Solar Visions" Malibu Films, Inc.
Rental: $39.50 24 min. color 1979 gr. 4-adult
Purchase: $395

Follows a reporter as she investigates solar energy potential by gathering information from government, university and private industry sources. Shows uses of solar in current design and construction.

"The Sun" Sterling Education Films
Purchase: $155 9 min. color 1969

Visual exploration of the sun as the center of the solar system and the earth's source of light and heat. Scientific experiments demonstrate its vital qualities.

"The Sun and How It Affects Us" Coronet Films
Purchase: $160 10 min. color 1958 gr. 4-9

Simple but comprehensive study of the sun's characteristics and the effect of the sun's corona, flares and sunspots on the earth. Accomplished by telescopic motion pictures.

"The Sunbeam Solution" Time-Life Multimedia (produced by BBC-TV)
Rental: $40/3 days 38 min. color 1974 gr. 8-adult
Purchase: $425 (film), $215 (videocassette)

Examines renewable sources of power which remain untapped, including sun, wind and tidal power. Argues for recycling and systems that use energy more efficiently.

"The Sun Builders" U.S. Dept. of Energy Film Library - TIC
Rental: Free Loan 20 min. color 1979 gr. 10-adult
Purchase: $127.50 (National Audiovisual Center)

Concentrates on passive solar homes, presented by the people who design, build, and live in them. Documents solar success stories from coast to coast, and the simple principles that make them work.

"Sun Dried Foods" Self-Reliance Foundation
(Also on videotape and slides) 30 min. color 1980 in English or Spanish

Demonstrates drying corn, fruits, herbs and meats by Native-American and Spanish-American families using traditional and modern solar methods. Teaching kits available for home economics, social studies, science and agriculture.

"The Sun's Energy" Academy Films
Rental: $21 17 min. color gr. 5-9
Purchase: $210

Explains why the sun's energy is the basis of all life on earth. Describes how scientists have discovered ways of using solar energy more directly to benefit both consumers and industry.

"The Sun: Its Power and Promise" Encyclopedia Britannica Education Corp.
Rental: $25 24 min, color gr, 7-12
Purchase: $320 (also on videocassette)

Spectacular photography of the sun and lively animation explore the ways that solar energy can substitute for diminishing fossil fuels supplies.

"Sunlight: A First Film" BFA Educational Media
Rental: $15/3 days 9 min. color 1971 gr. K-6
Purchase: $140

Demonstrates how all life on earth depends upon sunlight. The sun's rays generate color, warmth, shadows and seasons.

"Sun People" Hal Kirn & Associates
Purchase: $220 16 min. color 1978 gr. 10-adult
Rental available

Interviews many pioneer builders, architects, scientists, homeowners and specialists in passive solar energy. Records their opinions and reactions to living in passive/direct solar homes. Purpose is to convey that the same passive solar techniques apply nationwide.

"Sun Power for Farms" U.S. Dept. of Energy Film Library - TIC
Rental: Free Loan 12 min. color 1977 gr. 9-adult
Purchase: $69.50 (from National Audiovisual Center)

Examines potential of solar energy heating for agricultural applications. Several research projects are explained by scientists involved in: greenhouses, solar storage ponds, crop dryers, and rooftop solar collectors for poultry houses and milking parlors.

"The Sunspot Mystery" Time-Life Multimedia
Rental: $60 58 min. color 1977
Purchase: $650 ($325 videocassette)

Examines the complex ways in which the sun affects the earth. Careful analysis of the sun's behavior can help prevent natural disasters and regulate food supplies.

"Switch On the Sun" Xerox Education Productions
Rental: $17/1 day 15 min. color 1977(revised) gr. 4-12
Purchase: $290 (also on videocassette)

Explains why solar energy is the most feasible solution to the diminishing supply of fossil fuels. Examines existing solar energy technologies that are heating homes and manufacturing plants and discusses future development.

"Technology and Values: The Energy Connection" Barr Films
Rental: $32 19 min. color 1979 gr. 5-adult
Purchase: $320

Recognizes our dependency on energy and how our habits jeopardize our survival. Considers energy conservation and alternative resources as mandatory developments.

"Terraset Sun" Solarium Productions
Rental: $50 ($40 is refundable deposit) 20 min. color 1977 gr. 9-adult
Purchase: $325 (also on videocassette)

Reveals the story of the underground solar school built in Reston, Virginia, which has become an economic and educational success. Shows Terraset Elementary School's technical systems as well as the community/social side of the story.

"Tidal Power" U.S. Dept. of the Army, New England Div., Corps of Engineers
Free Loan 22 min. gr. 7-12

Documents a joint study by U.S. and Canada on economic feasibility of harnessing tidal power for electrical energy. Includes a tour of project sites.

"To Capture the Power of Sun & Tide: Unlimited Energy. . . No Pollution"
University of California, Extension Media Center
Rental: $33 22 min. color 1974 gr. 9-12

Examines potential uses of tidal and solar energy. Shows currently operating solar and tidal facilities overseas and in Canadian residential areas.

"Under the Sun" National Training Fund, Sheet Metal and Air Conditioning Industry
Free loan if request written on your organization stationery; 10 days; borrower pays return postage and insurance. 23½ min. color 1977 gr. 10-adult

Solar overview; solar-heated buildings are shown in operation through animation. Film was made for sheet metal workers to illustrate the job potential of solar.

"Water" Modern Talking Picture Services, Inc.
Free Loan gr. 9-12

Explores both the aesthetic and practical use of water. Covers the hydroelectric cycle, water chemistry, pollution, irrigation, conservation and industrial/domestic use of water.

"Waterground" Appalshop Films
Rental: $25 16 min. color 1977 gr. 7-adult
Purchase: $300

Considers renewable energy and traditional rural values and lifestyles. A husband-wife team who commercially operate the family's fifth-generation water powered gristmill reflect on the mill's history and the social changes that have affected it.

"We Will Freeze in the Dark" McGraw-Hill Films
Rental: $68 42 min. color 1977 gr. 8-adult
Purchase: $630

Identifying our wasteful, self-absorbed lifestyle, the film cites numerous steps to be taken to avoid disaster: recycling, insulation, new building designs, solar energy, car pooling. Further points to the urgent need for stronger government programs to combat the growing crisis. Nancy Dickerson narrates.

"Wind" Learning Corporation of America
Rental: $15 10 min. color 1973 gr. 4-12
Purchase: $145

Uses animation to illustrate wind's integral role in the environment. Depicts without narration the many functions of wind in our lives.

"Wind and What It Does" Encyclopedia Britannica Education Corp.
Rental: $12/3 days; $2 each additional day
Purchase: $150 (color); $90 (B&W) 11 min. color/B&W 1963 gr. K-3

Direct and immediate experience with basic aspects of wind: what it is, what it can do and how it affects man and his surroundings. Shows the wind at work and at rage, wreaking a lot of havoc.

"Winds and their Causes" (2nd edition) Coronet Films
Purchase: $165 11 min. color/B&W 1967 gr. 4-6

A glider demonstrates effects of fluctuating air temperatures, as heating and cooling occur. Shows how local winds are caused by land forms and water, and global winds by solar heating modified by Earth's rotation and interaction with other winds.

"Wise Masters of Wind and Water" Perspective Films
Rental: $26 16 min. color 1976 gr. 7-adult
Purchase: $264 (film); $238 (videocassette)

Shows traditional yet ingenious ways of using wind and water power to make flour, sharpen tools and wash clothes. Without narration, the film's message is relayed by the actual sounds and images of machinery at work.

Videocassettes

(All are 3/4" unless otherwise noted.)

"Availability of Solar Energy" ITT/V; also AMCEE
Purchase: $295 (available for loan)
43 min. color college-level

Discusses solar radiation available on or near the earth, properties of the sun, limiting factors and conversion efficiencies. Produced by John Clark of the University of Michigan.

"Bates' Car: Sweet as a Nut" Arthur Mokin
Rental: $25 Described in Films Section.
Purchase: $245

"Bill Loosely's Heat Pump" Bullfrog Films
Rental: $18.50 Described in Films Section.
Purchase: $165

"A Building in the Sun" Bullfrog Films
Rental: $31 Described in Films Section.
Purchase: $300

"A City Farmstead" Phoenix Films, Inc.
Rental: $25/1 day Described in Films Section.
Purchase: $240

"Dawn of the Solar Age: Solar Energy" (Part I) Time-Life Multimedia Distribution Ctr.
"Dawn of the Solar Age: Wind and Water Energy" (Part II)
Rental: $40/3 days Described in Films Section.
Purchase: $190 (individual); $325 (set)

"Design and Installation of Solar Heating and Cooling Systems" ITT/V or AMCEE
Rental: $50/5 days, ea. part Two parts, 52 min. ea. color college-level
Purchase: $295 each part

First part reviews solar systems, discusses simplified design procedures, solar system economics and installing procedures. Second part discusses automated design procedures for solar systems, design and installation of sub-system components, and more economics. By George Lof, et al., of Colorado State University.

"Solar Demonstration Projects" ITT/V and AMCEE
Rental: $50/5 days 60 min. color college-level
Purchase: $295

Presents "typical" solar space and water heating systems (and air-cooling, too). Case studies include residential, school and community installations showing real-world applications.

"Down to Earth City Living" Pyramid Films
Rental: $30 Described in Films Section.
Purchase: $190

"Energy: The Problems and the Future" National Geographic Educational Services
Purchase: $310 Described in Films Section.

"Institutional Considerations Involving Solar Energy Systems" ITT/V
Rental: $50/5 days 55 min. B&W
Purchase: $295

Features panel of experts from industry, government and education discussing the numerous measures affecting the solar industry's growth and development. Standards, regulations, government responsibilities and educational programs are discussed.

"New Mexico Passive Solar Buildings" National Audiovisual Center
Purchase: $80 Described in Films Section.

"The New Western Energy Show" Bullfrog Films
Rental: $33.50 Described in Films Section.
Purchase: $350

"Pedal Power" Bullfrog Films
Rental: $28.50 Described in Films Section.
Purchase: $270

"Power Without End" Xerox Education Productions
Purchase: $205 Described in Films Section.

"Putting the Sun to Work" American Educational Films
Rental: $15 Described in Films Section.
Purchase: $100

"Rubbish to Riches" Aims Instructional Media
Rental: $25 Described in Films Section
Purchase: $195

"Solar Energy" (A Series) The Public Television Library
30 min. each 1974 gr. 10-adult

Series of six features addressing different aspects of solar energy development and feasibility. Covers present uses, prospects for home uses and electricity production, programs and policies the U.S. needs to adopt for a solar transition.

"Solar Energy: How It Works" Churchill Films
Purchase: $240 Described in Films Section.

"Solar Energy Today" Center for Energy Policy and Research
Rental: $25/week Described in Films Section.
For viewing by educational, professional and governmental organizations.

"The Solar Promise" Bullfrog Films
Rental: $38.50 Described in Films Section.
Purchase: $410

"Solar Topics" Solar Engineering Magazine
Purchase: $50 each, $270 for six cassettes av. 15 min. color

Series of six presentations and interviews with representatives of various solar constituencies. Sheldon Butt (SEIA), Joe Sherman (HUD), Prof. John Yellot and others discuss their respective viewpoints on solar energy.

"The Sunbeam Solution" Time-Life Multimedia (produced by BBC-TV)
Purchase: $215 Described in Films Section.

"Sun Dried Foods" Self-Reliance Foundation
Purchase: $150 Described in Films Section.

"The Sun: Its Power and Promise" Encyclopedia Britannica Education Corp.
Rental: $25 Described in Films Section.
Purchase: $320

"The Sunspot Mystery" Time-Life Multimedia
Purchase: $325 Described in Films Section.

"Switch On the Sun" Xerox Education Producations
Rental: $17/1 day Described in Films Section.
Purchase: $290

"Terraset Sun" Solarium Productions
Purchase: $325 Described in Films Section.

"Wilderness School" Utah State Board of Education
Prices: Inquire 14 min. 1977 gr. K-6

Examines how a wilderness learning experience can teach students about ecology, solar energy, and person's place in the environment.

Slides

"Building and Passive Systems" Solar-Ed Corporation
Purchase: $23.95 30 slides color

Uses building designs and materials to demonstrate passive solar energy and conservation methods.

"Commercial, Multi-Family Residential and Large-Scale Demonstration Solar Systems"
S.E.E.S. Purchase: $23.95 20 slides w/cassette color

Presents several commercial projects along with apartments and condominiums. Includes active and passive applications.

"Commercial Solar Installations" Solar Engineering Magazine
Purchase: $40 40 slides audio-cassette

Features commercial applications of solar, including motels, warehouses, coin-op laundries and car washes. Information given on installation costs, collector and storage area, performance and estimated payback.

"A Community Project in Alternate Energy: Epoch B" Epoch B, Evanston Environmental Assn.
Rental: $10 (plus postage)
Purchase: Inquire 17 min. with audio-cassette color 1979 gr. 10-adult

Follows a community project from its inception (1976) to mid-1979, during which residents insulated a normal urban building and installed solar space heating, a small wind-generator and a passive solar greenhouse. Shows launching of Urban Ark program to solarize low-income homes.

"Concentrating Solar Collectors" Solar-Ed Corporation
Purchase: $23.95 30 slides color

Shows concentrating collectors and high-temperature solar systems. Exhibits history of solar devices and the functional principles of optics (reflection and refraction).

"Energy from the Wind" Alternate Sources of Energy
Rental: $35 55 slides color 30 min. cassette

Covers all aspects of man's use of the wind as a power source, from Ancient Greece to the present day.

"Energy Learning Systems Slide Library" Energy Learning Systems, Inc.
Purchase: $129.95 (refer to code SL-10)
Inquire about partial puchase. 200 slides gr. 7-adult

Collection of 200 slides covers six solar energy topics: solar availability, flat plate collectors, energy storage, concentrating solar collectors, measurement and control systems and passive building systems.

"Energy Slide Show" Consumer Action Now's Council on Environmental Alternatives, Inc.
Only costs are for honorarium and travel expenses of CAN narrator. (Possibility of rental/purchase in near future.) 120 slides color 30 min.

Presents historical evolution of energy, with emphasis on renewable energy use. Illustrates solar uses in residential and commercial buildings in the U.S. Good introduction to energy issues; adaptable to more technically oriented audiences.

"Energy Storage" Solar-Ed Corporation
Purchase: $23.95 25 slides color

Addresses the necessity for thermal storage of solar energy because of its intermittent nature. Sample calculations and characteristics of energy storage included.

"Flat-Plate Solar Collectors" Solar-Ed Corporation
Purchase: $49.95 60 slides color

Introduces functional principles of flat-plate solar collectors, including transmission of energy by glazing, absorption, thermal fluids, and heat transfer concepts. Shows slides of actual collectors, cut-away models and solar installations.

"Food and Energy for Today and Tomorrow" Cheyenne Community Solar Greenhouse
Rental: $30, plus $20 deposit 15 min. color 1979
Purchase: $90 110 slides w/ audio-cassette and guide

Follows the design and construction of the Cheyenne Community Solar Greenhouse, a 5,000 square-foot passive solar-heated structure. Explains the operation of a large solar greenhouse and covers the social benefits to the local population.

"Full Circle" Solar Engineering Magazine
Purchase: $40 40 slides audio-cassette

Reviews millennium of solar development in North America. Slides begin with Pueblo structures in Southwest, tracing solar heating and cooling systems to the present. Early designs and solar homes of 1930s to present are shown with a view of the future proposed by leading architects. Prepared and written by Donald Watson, a solar architect.

"A Golden Thread: 2500 Years of Solar Architecture and Technology" Butti/Perlin
Purchase: $90 (slides) 78 slides color and B&W 1978
$7 (audio-sync cassette) optional 16-min. tape

Traces solar architecture and technology from Greek civilization to the present. Delves into solar home heating systems and development of modern solar applications.

"Manufactured Domestic Use Solar Systems" S.E.E.S.
Purchase: $20 20 slides w/audio-cassette color

Presents a mixture of commercially designed and manufactured active and passive solar systems for heating and cooling. Most are integrated into single-family residential buildings.

"Measurement and Control Systems" Solar-Ed Corporation
Purchase: $23.95 25 slides color

Illustrates techniques and devices used in measuring solar irradiance and temperature, and control system components.

"New Sources of Energy" James L. Ruhle and Associates
Purchase: $55 slides (also as filmstrip) 50 slides w/printed narration

Reviews many potential sources of energy and their environmental problems. Includes renewable energy like solar collectors, photovoltaics, solar concentrator, wind, methyl alcohol and sewage conversion to methane gas. Also non-renewable energy sources like coal gasification, tar sand, and oil shale.

"New Sources of Methane" Alternate Sources of Energy
Rental: $35 50 slides color 30-min. cassette tape

Covers several designs for methane digesters, ranging from simple to complex.

"'North' Collector Workshop" S.E.E.S.
Purchase: $20 20 slides w/cassette color

Taken during a grassroots do-it-yourself workshop, the film presents the sequential process involved in building a low-cost solar air-heating panel.

"Owner-Built Solar Systems" S.E.E.S.
Purchase: $20 20 slides w/cassette

Emphasizes the diversity of solar energy systems with examples ranging from an inexpensive solar cooker to an adobe home with an attached solar greenhouse.

"Passive Solar Energy" New Mexico Solar Energy Association
Purchase: Members - $10.75/set; $64.50/all sets 6 slide sets/20 slides each
Non-Members - $12.75/set; $79.50/all sets with written text

Each set covers a different aspect of passive solar energy. Sets: (A) General, (B) Direct Gain, (C) Solar Geometry, Shading and Movable Insulation, (D) Thermal Storage Walls, (E) Attached Greenhouses, and (F) Convection Loops and Roof Ponds.

"Passive Solar Slides" New England Solar Energy Association
Purchase: Members - $31.50/set; $54/both sets Set A = 32 slides
Non-Members- $35/set; $60/both sets Set B = 29 slides
color 1978

Slides illustrate passive solar design techniques for use in New England. Set A concerns direct gain, sunspace-greenhouse and thermosyphon. Set B includes trombe walls, roof ponds, and hybrid and integrated systems. Data sheets describe performance, climatic design and type of solar system shown in each set.

"Passive Solar Systems" Total Environmental Action, Inc.
Rental: $35 (specify narrative type) 54 slides with tape or keyed script
Purchase: $65 with typed script 20 min. color 1978
$75 with taped narration

Provides basic information on passive design techniques. Aimed to widely varied audience; appropriate for student, professional and community groups.

"Photovoltaics: The Basics" Solar Engineering Magazine
Purchase: $40 40 slides w/audio-cassette

Introduces photovoltaic (solar cell) electric power industry. Describes silicon solar cells and how they work. Shows currently manufactured products and equipment and completed projects incorporating photovoltaic arrays.

"Retrofit of a Suburban Home" Solar Engineering Magazine
Purchase: $30 20 slides w/audio-cassette

Describes the solar air system designed and installed by Charles Thomsen, who retrofitted his home in Nebraska.

"Showcase of Solar Homes" Solar Engineering Magazine
Purchase: $40 40 slides w/audio-cassette

Shows solar houses and test installations open to the public around the nation. Houses vary in price range, architecture, system and funding (both private and public).

"Solar Architecture: The Last 7000 Years" Butti/Perlin
Purchase: $58 slides, 50 slides color/B&W 1980
$7 audio-syn cassette optional 11-minute cassette

Traces solar architecture from Neolithic Chinese pit-dwelling to present. Illustrations and diagrams describe ancient architecture and urban planning. Outlines reasons for the application or ignorance of solar building principles over the last 7000 years.

"Solar Energy Availability" Solar-Ed Corporation
Purchase: $23.95 30 slides color

Illustrates the availability of solar and seasonal variations. Introduces energy measurement and collection.

"Solar Energy: Ready When You Are" National Audiovisual Center
Purchase; $41.50 140 slides 16 min. color 1977 audio-cassette

Examines residential and commercial solar applications throughout the United States. Explores various solar technologies readily available for home, apartments, office buildings, schools and factories.

"Solar Energy: The Quest and the Question" Contact your State Energy Office (made by SERI)
Free Loan 80 slides 22 min. color 1978 audio-cassette or script

Quick overview of many renewable energy uses: all forms of solar conversion, wind, biomass and ocean thermal energy conversion (OTEC). Covers all regions of the country and focuses on residential and commercial applications.

Solar Energy Slides Solar Energy Institute of America
Purchase: $1/each (non-member) $5 minimum order color
$.70/each (member)

Individual slides on all aspects of solar: collectors, swimming pools, photovoltaics, heating and cooling, homes, commercial buildings, schematics, etc.

"Solar Greenhouses" S.E.E.S.
Purchase: $20 20 slides w/cassette color

Presents examples of attached and detached solar greenhouses which were owner- and commercially-built systems for use in food production, flower growing, and supplemental heating.

"A Solar Greenhouse Project" Solar Engineering Magazine
Purchase: $30 19 slides w/audio-cassette

Describes various types of solar greenhouses. Details construction of an attached solar greenhouse.

"The Solar Greenhouse Slide Series" The Solar Sustenance Team (Bill Yanda)
Purchase: $15/each set with tape 7 slide sets/20 slides each w/audio-
$1 /optional transcript cassette color 1978
$100/whole series with tapes

A series of seven sets of slides depicting the numerous aspects of solar greenhouses. The sets cover (#1) attached solar greenhouses, (#2) design, (#3) construction, (#4) horticulture, (#5) insects and other problems, (#6) community solar greenhouses, and (#7) solar greenhomes. Good for community groups, schools and conference presentations.

"Solar Greenhouse Slide Show" Ecotape Group
Purchase: $60 56 slides w/cassette and script

Covers solar gain, heat loss prevention, and heat storage in relation to solar greenhouses. Features a commercial parabolic aquaculture greenhouse, and freestanding and attached greenhouses.

"Solar Homes" James L. Ruhle & Associates
Purchase: $50 for 50 slides with printed narration
$25 for 50-frame color filmstrip with 30 min. audio-cassette

Shows homes and buildings fitted with: liquid flatplate, reinforced concrete, extruded plastic & rubber, and trickling water solar collectors. Displays "rollbond" copper and aluminum absorber panels and energy storage systems, along with hot air collectors and a variety of solar air-conditioning systems.

"Solar Homes in the Low Countries" Solar Sources Corporation
Rental; $50/day or $25/day if rented 3 or 4 times
75 slides color audio-cassette with narration 1976

Shows construction of two South Carolina homes with solar heating and hot water systems. Both built by Solar Development Associates with HUD grants for solar systems. Covers architecture, engineering and cost benefits.

"Solar Power Systems" Alternative Sources of Energy
Purchase: $35 50 slides audio-cassette gr. 10-adult

Examples of non-domestic uses of solar power are shown, including solar crop dryers, solar ponds, solar electric power systems, solar powered engines, satellite solar power systems and the production of solar cells.

"The Solar Quest" Polished Apple
Purchase: $50.75 Described in Filmstrips section.

"Solar Schools" Solar Engineering Magazine
Purchase: $40 40 slides with audio-cassette 35 min.

Views solar projects in 14 schools throughout the United States. Current and completed projects are described in regard to performance, cost and types of installations.

"Solar Slide Kit" Zomeworks Corporation
Purchase: $12 21 slides color 1974

Describes beadwall construction, drum heat storage and skylid operation for a passive solar design.

"Solar Spec Homes" Solar Engineering Magazine
Purchase: $40 40 slides with audio-cassette

Features a variety of architectural styles and solar systems used on homes of varying price ranges.

"Solar Water Heating" Ecotope Group
37 slides and script

Features solar collection systems and the economics of solar water heating. Shows several water heaters built and installed through workshops.

"Solar Water Heating: The Last 100 Years" Butti/Perlin
Purchase: $58 slides 50 slides color, B&W 1980
$7 audio-cassette Optional 11-minute cassette

Follows the evolution and use of solar heaters from the 19th Century to the present. Uses many vintage photos, diagrams and illustrations. Details growth of heater industry in California, Florida and world-wide, with examples of modern heaters.

"Sun/Earth Slide Presentation" KaiDib Films, International
Purchase: Inquire color 1976 gr. 10-adult

Contains over 150 slides and a copy of the book Sun/Earth by Richard Crowther, which present the interaction of natural energy sources--sun, wind, earth, water--in practical and fundamental terms.

"Village Homes Slide Set" Passive Solar Institute
Purchase: $20 postpaid 20 slides color 1979

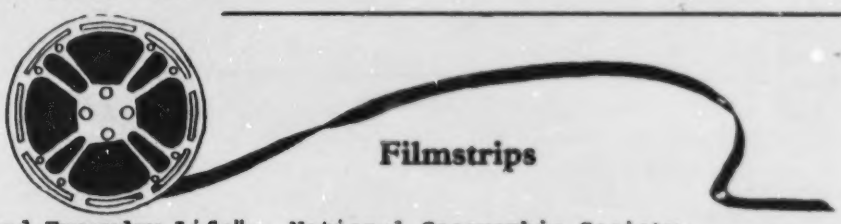
Depicts the innovative solar housing development found in Davis, California. All homes in the planned area are heated and cooled by renewable energy.

"Wind and Biomass Energy" Ecotope Group
34 slides w/ script

Explains various uses of these indirect forms of solar energy. Wind for grain milling, pumping, and electric generation; biomass energy in the form of methane gas, and the use of wood.

"Wood Heating" Ecotope Group
75 slides w/script

Covers all aspects of wood heating from wood growth to furnace and heat storage systems. A wide variety of stove types are presented; installation, maintenance, and safety are emphasized.



Filmstrips

"Energy and Everyday Life" National Geographic Society
Purchase: $50 for series of 3 with audio-cassettes 11-14 min. color 1978 gr. 1-5

Series defines energy and introduces concepts about present sources, conservation and future sources. Titles of three filmstrips: "Sun, Wind, and Water," "Energy from the Earth," and "Saving Energy."

"Harnessing Solar Energy" Inquiry Audio-Visual
Purchase: $8 45 frames captioned color

Studies the sun as a never-ending energy source and human attempts to harness it to power machines, cook food, and charge batteries. Photosynthesis explained.

"Harnessing the Sun" National Geographic Educational Services
Purchase: $18 13 min. gr. 5-12 1977 with cassette

Traces the sun's essential characteristics--light and heat--that affect all life on earth. Weighs the increasing demand for energy against diminishing fossil fuel supplies, recognizing the need for new energy sources. Solar collectors, mirrors and photovoltaics, along with solar-heated homes and future uses, are discussed.

"New Sources of Energy" Ruhle
Purchase: $27.50 30 min. w/audio-cassette, narrated by Rod Serling

Described in Slides section.

"Putting the Sun to Work" Educational Activities, Inc.
Purchase: $33 w/records or cassettes 1977 gr. 4-8

Explores different solar air heating systems for residential use. Also studies the conversion of sunlight into electricity.

"Radiant Energy" Singer Education Division
Purchase: $17 gr. 6-9 color

Shows how solar energy is fundamental to life and movement. Describes the dynamics of light, color and heat. Accompanied by record or cassette and teacher's guide.

"Solar Energy" Crystal Productions
Purchase: $21 each 2 filmstrips/80 frames each
$39 both w/record or audio-cassette color 1978

Part I, "Sunshine Kids," describes a high school project to build a solar-heated greenhouse. Part II, "Solar Energy At Work," describes basic principles used in solar heating and energy conservation.

"Solar Energy" Educational Activities, Inc.
Purchase: $27 (with records); $29 (with cassette) gr. 4-6

A set of two filmstrips shows feasible uses of solar for heat and power. Includes teacher's guide.

"Solar Homes" James L. Ruhle & Associates
Purchase: $25 for 50-frame color filmstrip with 30-min. audio-cassette

Described in Slides section.

"The Solar Quest" The Polished Apple
Purchase: $35.75 for 87-frame filmstrip 12-min. color audio-cassette gr. 10-up
($50.75 for slides)

Designed to show past, present and future uses of solar technology, with special emphasis on home design. Packaged with teacher's guide and bibliography.

"The Sun: An Old Solution to a New Problem" Educational Activities, Inc.
Purchase: $33 w/records or cassette 1977 gr. 4-8

A short history of solar energy introduces the modern solar devices used today. Also explains the limited availability, expense and dangers of fossil and nuclear fuels.

"The Sun: Energy from a Star" Society for Visual Education, Inc.
Purchase: $18.50 w/record or cassette color 1976 gr. 7-9

Portrays our most important star, the sun, in its role as sustainer of life, chief energy source and basic determinant of climate. Includes teacher's guide.

"The Sun's Energy" Inquiry Audiovisuals
Purchase: $7.50 audio-cassette color gr. K-6

Links solar energy to heat, electrical, chemical, mechanical, light and other energies familiar to humans. Solar's future is explained.

"The Sun's Energy" Prentice-Hall Co.
Purchase: $27 w/record or cassette 40 frames 14 min.
color gr. 9-adult

Illustrates direct and indirect uses of solar power such as solar cells, heaters and cooking devices. Comes with teacher's guide.

"What the Sun Means to the Earth--Light Energy" Sterling Educational Films
Purchase: Inquire 8mm filmloop 1968 gr. 1-6

Silently shows sun's radiation and how its light energy compares to electrical energy. Also demonstrates hydroelectric power from waterfalls and its many uses.

"World Above Us Series: The Sun" Troll Associates
Purchase: $14 gr. K-4 w/audio-cassette

A simple presentation of the basic facts about the sun as the ultimate energy source.

"You and Energy" Barr Films
Purchase $24 77-frame w/cassette gr. 7-9

Designed to generate interest in energy alternatives including solar, wind, geothermal and (gulp) nuclear power. Includes teacher's guide.

PERIODICALS

Books and films may last longer, but periodicals spread solar news faster, farther and more frequently than does any other medium. This list of newsletters, journals, and full-fledged magazines reflects the latest developments in renewable energy and energy-related appropriate technology.

AERO SUN TIMES: A JOURNAL OF RENEWABLE ENERGY
Alternative Energy Resources Organization
435 Stapleton Bldg.
Billings, MT 59101

Monthly
Non-member subscription: $12/yr.
Basic membership: $15/yr.
Profit-making institutions: $25/yr.

Addresses a wide variety of renewable energy and appropriate technology topics. Emphasizes local, state (MT), and neighboring states solar news; articles on solar education and organizing regular features.

ALTERNATE SOURCES OF ENERGY
Route 2, Box 90A
Milaca, MN 56353

Bimonthly
Individual: $10/yr.
Business, library, gov't: $15/yr.

Serves as a clearinghouse for the exchange of ideas and technologies. Contains practical information accompanied by illustrations and diagrams, depicting renewable resource technologies that can be simply applied to meet individual needs.

AMERICAN SOLAR SEARCH NEWSLETTER
470 Liberty St., No. 108
Littleferry, NJ 07643

Monthly
$15/yr.

Describes the latest developments in alternative energy technologies and conservation. Aims to educate the consumer, including do-it-yourself information and source lists. Features interviews and answers energy questions posed by readers.

A.T. TIMES: A JOURNAL OF APPROPRIATE TECHNOLOGY
Nat'l. Center for Appropriate Technology
P.O. Box 3838
Butte, MT 59701

Eight times yearly
12 issues for $10

Provides information on Community Action Programs and other solar energy projects involving low-income people. Documents communities' methods of implementing self-reliant, low-cost technologies.

CANADIAN RENEWABLE ENERGY NEWS
P.O. Box 4869
Station E
Ottawa, CANADA K1S 5B4

Monthly
Individual: $7.50/yr.
Corporate/Institutional: $15/yr.

Covers all aspects of renewable energy development in Canada and internationally. A complete guide to the latest news in renewable industries, technologies, federal programs, and politics.

CASCADE
454 Willamette St.
Box 1492
Eugene, OR 97440

Six times yearly
Individuals, businesses:
$10/10 issues
Non-profits encouraged to donate

Highlights community/cooperative actions and alternative lifestyles in the Northwest. Filled with information on education, economics, energy, environment, food, health, land/shelter, transportation, communications, and more.

THE CoEVOLUTION QUARTERLY
Box 428
Sausalito, CA 94965

Quarterly
$12/yr.

Provides thought-provoking essays, opinion pieces, reports and letters on the land, "soft" technology, and community development. Reflects the co-evolution philosophy of "whole living systems." Offers valuable resources, editorial and cartoon commentaries, poetry, art, and philosophical musings on numerous subjects.

CRITICAL MASS JOURNAL
P.O. Box 1538
Washington, DC 20013

Monthly
Individual: $7.50/yr.
Organizations: $37.50/yr.

Gives detailed reports on nuclear energy issues and alternative safe energy options. Includes up-to-date information on legal, regulatory, and waste-disposal issues affecting nuclear energy. Also has reports from citizen energy groups across the country.

ENERGY AND ALTERNATIVES
Solar Utilities Negotiations
P.O. Box 681
Salem, OR 97308

Quarterly
$4/yr.

Contains informative articles on ways of using new energy sources that encourage conservation and a transition to renewable resources. Contains product line news, a calendar, book reviews, and topical stories ranging from passive solar to biomass.

ENERGY AND EDUCATION
National Science Teachers Association
1742 Connecticut Ave., N.W.
Washington, DC 20009

Bimonthly
Free

Reports on energy education programs around the country. Includes book reviews and an events calendar directed to science teachers and energy educators. Articles on solar educational projects appear occasionally.

THE ENERGY CONSUMER
DOE, Office of Consumer Affairs
Forrestal Bldg., Rm. 8G-082
Washington, DC 20585

Monthly
Free

Reports federal energy activities and programs affecting the consumer. Each issue usually devoted to a particular energy area. Also features monthly events calendar of workshops and conferences.

ENERGY DAILY
300 National Press Building
Washington, DC 20045

Daily
$6.25/yr.

Day-to-day look at the latest news in energy programs, policies and developments. Useful publication containing information on all fuels and technologies.

ENERGY INSIDER
DOE, Mail Stop GA-343
Forrestal Bldg., Rm. 8F-044
Washington, DC 20585

Biweekly
Free

A wrap-up of Federal Energy Regulatory Commission decisions and employee news. Provides up-to-date information on DOE's activities.

ENERGY RESEARCH DIGEST
P.O. Box 17346
Dulles International Airport
Washington, DC 20041

Biweekly
$75/six months
$140/yr.-first year
$165/yr.-second year

Covers federally-sponsored non-nuclear energy research and development projects.

ENERGY TODAY
233 National Press Building
Washington, DC 20045

Twice per month
$165/yr.

Focuses on federal policy research regarding all forms of energy. Includes a direct-source reference for each item.

ENERGY USER NEWS
665 National Press Building
Washington, DC 20045

Weekly
$30/yr.

Concentrates on commercial and industrial energy use, including news on energy supply, price, and government actions affecting this sector.

ENVIRONMENTAL ACTION
1346 Connecticut Ave., N.W.
Washington, DC 20036

Monthly
Student & Retired: $10/yr.
Individual & Non-profit Org:$15/yr.
Profit-making Org: $35/yr.

Reports on citizen efforts to affect policymaking and legislation in such areas as clean water, toxic substances, energy, transportation, and solid waste disposal.

GREEN REVOLUTION
P.O. Box 3233
York, PA 17402

Monthly, except January & July
Subscription by donation
Libraries, agencies can be invoiced: $8/yr.

Acts as the School of Living's voice, reporting activities of a world-wide movement which works for decentralized government, industry, and population. Includes articles on appropriate technology, education, homesteading, cooperative self-sufficiency, and economic reform.

HOME ENERGY DIGEST & WOODBURNING QUARTERLY
8009 34th Avenue, South
Minneapolis, MN 55420

Quarterly
$7.95/yr.

Offers extensive information on wood, fireplaces, woodburning stoves, chain saws, and household energy use. Contains wide range of advertising for wood-oriented fuel sources.

IN REVIEW
Solar Energy Research Institute (SERI)
1617 Cole Blvd.
Golden, CO 80401

Monthly
Free

Reports on latest developments in solar technology, including biomass, hydroelectric, alcohol fuels, wind, and wood. Discusses SERI studies and projects in addition to the subcontracts issued to various institutions.

JOURNAL OF THE NEW ALCHEMISTS
The New Alchemy Institute
P.O. Box 47
Woods Hole, MA 02543

Annual
(plus quarterly publication)
$15/yr. or $25 membership

Describes the activities and experiments of the group of scientists and families forming the New Alchemy Institute. Includes illustrations, diagrammed essays, and stories of the experiences and lessons learned working at the Institute's self-sufficient farms.

LIVING ALTERNATIVES
Living Alternatives Magazine, Inc.
P.O. Box 189
Newton, MA 02195

Monthly
$9/yr.

Features articles about the "human side" of appropriate technology ranging from alternative ways to produce energy to building houses, organizing businesses, and recycling. Includes a monthly events calendar listing workshops, conferences and seminars.

MASEC NEWS
Mid-America Solar Energy Complex
8140-26th Avenue, South
Bloomington, MN 55420

Monthly
No charge

Short articles concerning new solar energy developments, systems, designs, and installations in the 12-state Mid-Western region.

THE MOTHER EARTH NEWS

The Mother Earth News, Inc.
105 Stoney Mountain Rd.
Hendersonville, NC 28739

Bimonthly
$15/six issues

Down-to-earth descriptions of alternate lifestyles, ecology, and energy uses at the grassroots level. Step-by-step projects featured for those wishing to do-it-themselves. Best regular feature is the "Plowboy Interview with Solar Celebrities."

MSEA BULLETIN

Michigan Solar Energy Association
201 E. Liberty St.
Ann Arbor, MI 48104

Bimonthly
Student/Senior: $5/yr.
Individual: $10/yr.

Highlights Michigan state and local solar news. Includes articles on recent solar projects and their uses, including solar thermal and electric processes, wind energy, and hydropower.

NESEC UPDATE

Northeast Solar Energy Center
470 Atlantic Avenue
Boston, MA 02110

Monthly
Free

Provides information about solar energy ideas, systems, and designs in the Northeast.

NEW ENGLAND SOLAR ENERGY ASSOCIATION NEWSLETTER

P.O. Box 541
22 High Street
Brattleboro, VT 05301

Bimonthly
$20/yr.

Provides up-to-date information on solar developments, including passive and active solar systems, solar legislation and lobbying efforts, and a monthly events calendar. Also includes news on New England solar projects and a book review section.

NEW ROOTS

P.O. Box 548
Greenfield, MA 01301

Bimonthly
$8/yr.
Institutions: $12/yr.

Covers the movement toward self-reliance in the Northeast. Includes information on waste recycling, solar energy, food cooperatives, appropriate technology, health, and politics.

NOT MAN APART

Friends of the Earth
124 Spear Street
San Francisco, CA 94105

Bimonthly
Subscription: $15/yr.
Membership: Student/Senior: $12/yr.
Regular: $25/yr.

Presents the latest news and thought on conservation, environmental actions and other worldwide issues. Includes articles on wilderness, energy, and citizen conservation efforts. Regular features include editorials, book reviews, poetry, and photographs.

OUTLOOK
Governors State University
Park Forest South, IL 60466

Monthly
Individual: $6/yr.
Institutions: $10/yr.

Emphasizes appropriate technology, energy alternatives, and community policy and planning. Includes monthly calendar of energy-related activities.

POPULAR SCIENCE
380 Madison Ave.
New York, NY 10017

Monthly
$9.94/yr.
$15/two years
$20/three years

Carries information on the latest developments in science and technology, regularly featuring solar news. Everything from cars and electronics to homes and energy. Excellent information guide to newest products and inventions.

THE POWER LINE
Utility Project, EAF
1346 Connecticut Ave., N.W.
Rm. 724
Washington, DC 20036

Monthly
Senior/low-income: $7.50/yr.
Individual: $15/yr.
Gov't-funded institution: $25/yr.
Profit-making institution: $50/yr.

Highlights work by citizen action groups to attain reliable, safe, and clean energy at reasonable costs. Provides resource information to fortify citizens on energy matters and utility rate increases.

RAIN
2270 N.W. Irving
Portland, OR 97210

Ten times yearly
Income below $5000: $7.50/yr.
Regular: $15/yr.

A national information access journal with articles about individuals and groups taking positive actions in their lives, communities, and workplaces. It acts as a guide to organizations, conferences, and publications on self-help of all varieties.

RURAL AMERICA
1346 Connecticut Ave., N.W.
Washington, DC 20036

Monthly
$10/yr.

A good information source for small-town and rural people and anyone interested in how rural America is affected by inflation, land speculation, energy and health care problems, taxes, farming methods, agribusiness, and government policies.

SCIENCE NEWS
1719 N St., N.W.
Washington, DC 20036

Subscriptions: 231 West Center St.
Marion, OH 43302

Weekly
$15.50/yr.
$27/two years
$37.50/three years

An excellent guide to the latest scientific research projects. Short, informative articles summarize the most up-to-date research findings, publications, and scientific developments. Frequently features articles on renewable energy technology.

SELF-RELIANCE

Institute for Local Self-Reliance
1717 18th St., N.W.
Washington, DC 20009

Bimonthly
Individual: $8/yr.
Institution: $15/yr.

Reports the uses of small-scale appropriate technology on the local level to conquer urban problems. Discusses developments in politics, energy and agriculture that indicate a move towards greater decentralization and local, popular control of community institutions.

SOFT ENERGY NOTES

c/o Friends of the Earth
124 Spear Street
San Francisco, CA 94105

Published occasionally by (and distributed to the network of) the International Project for Soft Energy Paths (IPSEP).

Provides access to information on the international status of various renewable technologies. Gives technical and economic data, analytic methods, institutional concepts, as well as circulating annotated summaries of key findings.

SOLAR AGE

Church Hill
Harrisville, NH 03450

Monthly
$20/yr.
$32/two years
$42/three years

Current information in all areas of solar energy applications, research, marketing, policy, and legislation. Official magazine for the American Section of the International Solar Energy Society (ISES).

SOLAR ENERGY

Pergamon Press, Ltd.
44-01 21st St.
Long Island City, NY 11101

$15/four issues

Scientific and engineering papers on all aspects of solar energy spanning the technology, theory, and applications.

SOLAR ENERGY DIGEST

P.O. Box 17776
San Diego, CA 92117

Monthly
$30.50/yr.

Offers concise summaries of solar energy developments, ongoing research and publications. Includes U.S. and foreign solar affairs.

SOLAR ENERGY INTELLIGENCE REPORT

Business Publishers, Inc.
P.O. Box 1067
Silver Spring, MD 20910

Weekly
Introduction rate: $107
Reg: $127/yr.

Informative newsletter covering the latest in federal, state, and local solar legislation, business ventures, solar technology developments, new products, patents, new publications, and includes a calendar of events. Topics include heating and cooling, agricultural and industrial heating, photovoltaics, wind power, ocean and thermal electric power, and biomass.

SOLAR ENGINEERING MAGAZINE
8435 N. Stemmons Freeway
Suite 880
Dallas, TX 75247

Monthly
$20/yr.

Provides concise up-to-date news, descriptions, pictures of latest solar developments and includes extensive advertising of solar products.

SOLAR HEATING AND COOLING
Gordon Publications
P.O. Box 2126-R
Morristown, NH 07960

Bimonthly
$6/yr.

Comprised of short articles on solar heating and cooling issues, recent developments, and equipment. Oriented to builders, developers, and manufacturers.

SOLAR LIFE
SEINAM
1110 6th St., N.W.
Washington, DC 20001

Monthly
Newsletter: $20/yr.
Newsletter/membership: $25/yr.
Businesses: $45/yr.

Focuses on all aspects of renewable resources. Includes information on new products, solar legislation, publications, do-it-yourself projects, and individual solar applications. Offers monthly calendar of solar events.

SOLAR TIMES
Solar Times Company
3 Old Post Road
Madison, CT 06443

Monthly
$12.50/yr.
$22/two years

Provides concise news stories on the latest solar energy developments. Reports on a wide range of solar activities, including government programs, OTEC, collector design, manufacturing, and installation. Contains listings of new products and services and a monthly solar-events calendar.

SOLAR UTILIZATION NEWS
The Alternative Energy Institute
Box 3100
Estes Park, CO 80517

Monthly
Individual: $10/yr.
Library/Commercial: $15/yr.

Contains interesting news about solar developments; regularly features listings of patents, books, conferences, films and workshops. Also includes articles about solar projects and various federal solar programs.

SOUTHWEST BULLETIN
New Mexico Solar Energy Assoc. (NMSEA)
P.O. Box 2004
Sante Fe, NM 87501

Monthly
Student/Income less than $6000:
$10/yr.
Individual/Library: $15/yr.
Family/Foreign/Sm.Business: $20/yr.
Institution/Corporation: $50/yr.

Presents all sides of solar or: artistic, scientific and technical aspects Particular interest placed on passive solar, wind, wood, methane, water conservation, adobe construction, and other Southwest region solar applications.

THE SUN TIMES
Solar Lobby
1001 Connecticut Ave., N.W.
Suite 510
Washington, DC 20036

Monthly
Subscription/Membership: $15/yr.

Reports the latest developments in solar policy, politics and technology. Offers strategies for individual lobbying efforts and information and advice on how to create a sustainable lifestyle.

SUN-UP
P.O Drawer S
Yucca Valley, CA 92284

Monthly
$6.50/yr.

Geared towards architects, builders, homeowners, and industry. Provides up-to-date information on developments in solar research, products, seminars, and workshops.

SUNRAE NEWSLETTER
5679 Hollister Ave.
Goleta, CA 93017

Quarterly
Student/Senior: $5/yr.
Regular: $15/yr.
Corporate: $50/yr.

Breaks the latest solar news, particularly emphasizing legislative, lobbying and research efforts. Also, provides information on solar-related activities in California, announces local solar workshops and programs, and includes book reviews.

TECHNOLOGY REVIEW
Tech. Review, Rm. 10-140
Massachusetts Institute of Technology
Cambridge, MA 02139

Eight times yearly
$15/yr.
$24/two years
$32/three years

Investigates newest developments in science and technology, regularly featuring solar energy. Written in understandable language, this magazine contains many thought-provoking articles. Includes book reviews, in-depth news sections, and regular feature columns. Edited at M.I.T.

WIND ENERGY REPORT
Attn: News Editor
104 South Village Ave.
Rockville Center, NY 11570

Monthly
$95/yr.

Discusses recent national and international developments in wind energy. Includes summaries of new wind publications, reports, and studies. Lists recent patents on wind machines.

WIND POWER DIGEST
109 E. Lexington
Elkhart, IN 46514

Quarterly
$8/yr.

Written for lay and professional audiences, highlighting specific wind energy case studies. Articles describe the machinery available, owner-operator experiences, a few technical research projects. Includes many photographs, sketches, tables, and charts.

THE WORKBOOK

Southwest Research & Information Center
P.O. Box 4524
Albuquerque, NM 87106

Bimonthly
Student/Senior: $7/yr.
Individual: $10/yr.
Institution: $20/yr.

Informative, fully-indexed catalog of information sources covering subjects from energy, agriculture, and consumer affairs to housing, health care, environmental problems, and media.

Sundries Bookshelf – CRR Publications

SHINING EXAMPLES: Model Projects Using Renewable Resources, CRR, May 1980, 200 pages, $6.95

In early 1980, the Center for Renewable Resources completed a year-long survey of conservation and renewable resource activities in all of the states, D.C., and Puerto Rico. Over 1,900 practical and creative programs of many types (agricultural, urban, commercial, community, educational, financial, housing, industrial, institutional, legislative, low income, outreach, state, and utility) were identified. Now, 150 of the most interesting of these projects are featured in SHINING EXAMPLES --- a cross-section of the most innovative and successful projects (spanning all the categories).

Each entry includes information on the projects' origins, funding, guiding spirit, and location. An introductory essay examines the findings, the stellar projects, and the ingredients of success. Indexed and easy to use, this book stands as proof that the solar transition has begun.

SOLAR ENERGY EDUCATION PACKET FOR ELEMENTARY AND SECONDARY STUDENTS, CRR, Beth Wagner, ed. revised Sept. 1979, 64 pages, $4.25.

This packet contains an interdisciplinary selection of solar activities, reading lessons, and background materials about all forms of renewable energy: sun, wind, water, and biomass. Over 25 simple student projects demonstrate solar energy at work. The packet also includes a comprehensive, annotated bibliography of K-12 solar publications. This listing is the first of its kind to highlight strictly solar educational materials and it serves as an excellent guide to other sources.

BLUEPRINT FOR A SOLAR AMERICA, Solar Lobby, Jan. 1979, 32 pages, $2.50.

This document, written by a coalition of citizen's groups, builds a rationale for and presents a series of programs needed to achieve more than 25 percent of U.S. energy from renewable resources by the year 2000. In support of the aggressive solar goal, the report recommends consumer protection programs, job training efforts, a Solar Energy Development Bank, tax credits, and a special White House Office to coordinate solar energy programs. BLUEPRINT is a compelling call for action.

LIFE AFTER '80: Environmental Choices We Can Live With, CRR and Solar Lobby, 1980, 280 pages, $6.95.

Where are the potholes on the "soft energy path?" Is the transition to a solar-powered economy a social revolution to boot? Are natural law, the laws of human nature, and the rules of technology at odds? What's the kicker in the environmental prospect -- air, water, land, or social organization? These and other questions are taken up by more than 30 maverick scholars, energy analysts, and social critics who have contributed provocative new essays to the Lobby's and the Center's joint offering to Earth Day '80 participants. Kenneth Bouling, Barry Commoner, Theodore Roszak, Herman Daly, Hazel Henderson, Denis Hayes, Daniel Yergin, Jacques Cousteau, Langdon Winner, Amory Lovins and more. Edited by Kathleen Courrier with a foreword by Richard Munson.

SOURCES OF FUNDS FOR SOLAR ACTIVITIES, Anita Gunn, Revised December, 1979, 130 pages, $6.95

Grants are available, but how do you get the bucks? SOURCES OF FUNDS shows how to approach foundations, which are receptive to renewable resources projects, whom to contact, and other valuable information. It tells which Government agencies are most interested in renewable resource development and its related benefits, whom to contact at those agencies, and what programs each has. It cites examples of states that have innovative funding mechanisms to encourage renewable resource development, and its appendices include lists of agency contacts, an extensive fundraising bibliography, and more.

SOLAR ENERGY EDUCATION BIBLIOGRAPHY FOR ELEMENTARY, SECONDARY, AND COLLEGE STUDENTS, CRR, Beth Wagner, revised, June, 1980, over 50 pages, $3.25.

This bibliography contains an interdisciplinary selection of solar activities, reading lessons, and background materials about all forms of renewable energy: sun, wind, water and biomass. The materials were selected for their value and adaptability in elementary, secondary, and college level classrooms and workshops. The bibliography includes 1978-80 items along with a list of film distributors of energy and solar films, filmstrips, and slideshows.

PLEASE MAKE CHECKS PAYABLE TO "SUNDRIES", c/o Center for Renewable Resources
1001 Connecticut Avenue, N.W., #510
Washington, D.C. 20036

All orders must be PREPAID, including 15% of the total order amount to cover postage charges. Bulk order information is available through Sundries: 202-466-6880.